Maritime Heritage Minnesota

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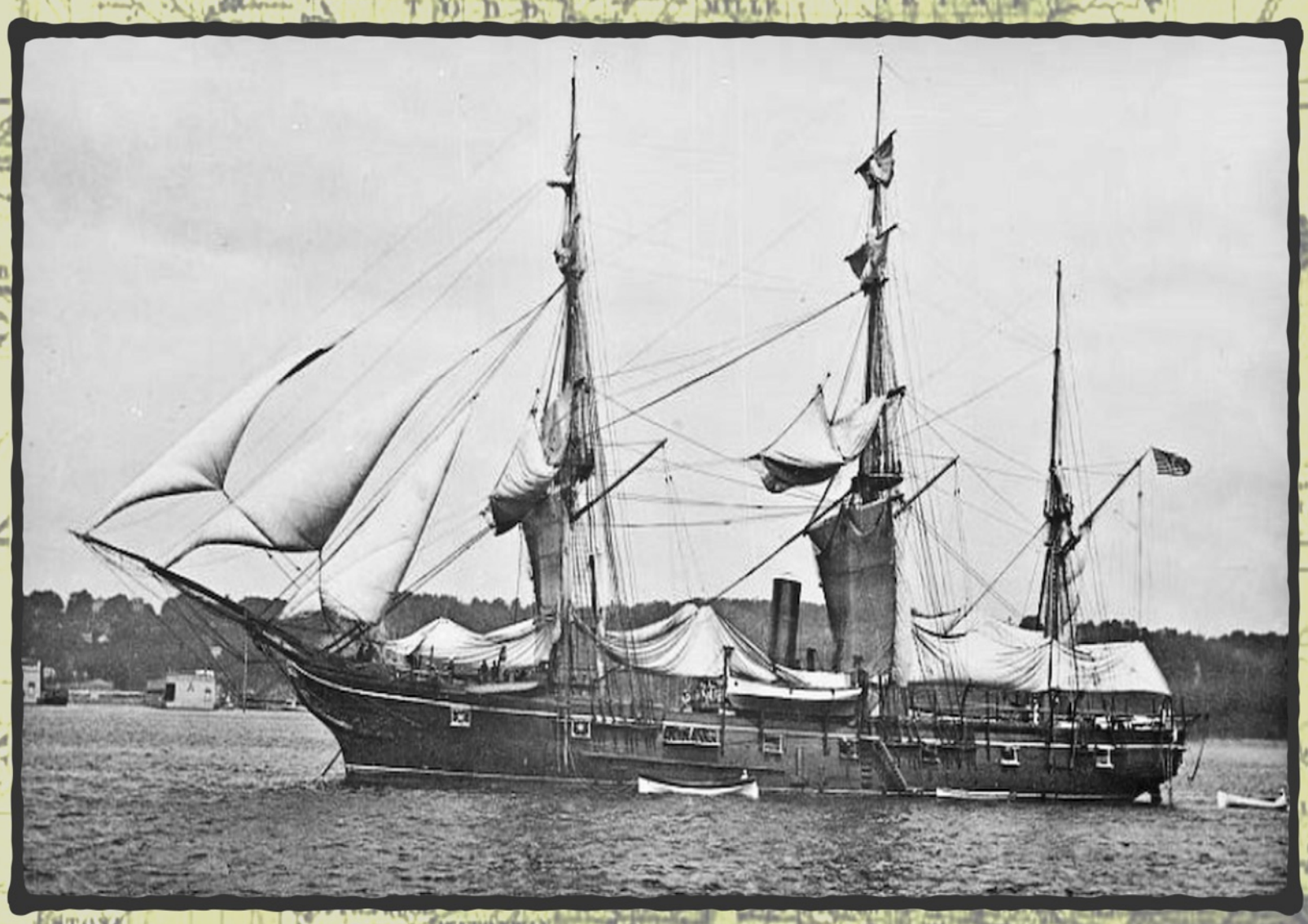
CLEAN WATER LAND & LEGACY AMENDMENT

Log Book 21 of the USS Essex

June 21, 1886 - December 31, 1886

The Day-to-Day Operations of Shipbuilder Donald McKay's Last Ship



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USS *Essex* Log Book 21

Finding Aid

Adams class ship USS *Essex* (IX-10) was designed and constructed by premier North American shipwright Donald McKay. Her keel was laid down in 1874 and she was launched in 1876. She was a three-decked wooden screw steamer sloop-of-war with auxiliary sail (bark-rigged). She was 185 feet long, 35 feet in the beam, had a 14.25-foot draft, and was 1,375 tons. When commissioned, she carried six big guns, all muzzle loaders: one XI-inch and four IX-inch Dahlgren Naval Artillery guns, and one 60-pound Parrott Rifle The ship's armory carried dozens of small arms including rifles, pistols, revolvers, and cutlasses. Further, she carried a six auxiliary boats including a launch, two cutters, a whale boat, one gig, and a dinghy. The combinations of guns and watercraft carried on board USS *Essex* could change from log book to log book. She served with the US Navy in active duty and as a training ship with the Ohio Naval Militia, the Illinois Naval Militia, and the Minnesota Naval Militia. She was intentionally burned on Minnesota Point in Lake Superior at Duluth in 1931. Her Minnesota Archaeological Site Number is 21-SL-1030 and she is a National Register of Historic Places Property.

Maritime Heritage Minnesota digitized the 62 known USS *Essex* log books held at the National Archives in Washington, DC, and at the US Naval Academy in Annapolis in 2010. The log books consist of the daily activities on board the *Essex* as recorded by deck officers on duty. Those deck notes were then transcribed to be the official log of the *Essex* that were sent to the Navy Department in Washington, DC, where they were bound into their current book form. At the beginning of most log books, there are: a title page, two list of officers pages, a crew complement page (listing the crew by rank and job), an armaments page (list of the different large guns, boats, and small arms), and two pages of compass observations. Not all log books contain these pages and some include additional information, including a plan and section of the *Essex* in Log Books 8 and 9 and four pages of directions on how to fill out log pages in Log Book 21. Sometimes two transcribed versions of log pages were sent to the Navy Department and duplicate books were produced. However, sometimes the duplicate books were not bound with exactly the same pages, so some books overlap each other in date. Also, some log book pages have writing too close to its spine edge and after binding, some words and numbers were 'lost' in the spine if the binding remained tight over the decades. Further, it must be kept in mind that the names of ships, both American and foreign, as well as geographical locations usually expressed in different languages will have variations in spelling. With this in mind, the deck officers of the *Essex*, when writing the log pages, may misunderstand what the actual name of a ship or geographical marker actually is and their handwriting may present challenges or be nearly illegible. The digitization and editing of the USS *Essex* log books were made possible with funding provided by the Minnesota Historical and Cultural Heritage Grant

program, part of the Arts and Cultural Heritage Fund of the Clean Water, Land and Legacy Amendment.

Log Book 21 of the USS *Essex*: June 21, 1886-December 31, 1886

The National Archives houses USS *Essex* Log Book 21. Throughout Log Book 21, comments were made on:

- sail adjustments with sail type and action specified
- banking of boiler fires in order to put the ship on stand-by for immediate use
- coupling and uncoupling the propellor when the ship was shifting from steam to sail and *vice-versa*
- when under steam the different watches record the average steam boiler pressure and engine revolutions
- lowering of smokestack and proceeded under sail and *vice-versa* when the *Essex* was underway
- when anchored nearly every watch described the state of the anchor cables: crossed ('cross in hawse, stbd chain on top' or 'Elbow in hawse') and often will mention 'clearing the hawse' (the crossed anchor cables were uncrossed)
- casting deep sea lead for soundings
- swinging the ship to test for compass deviation
- patent log readings
- water distillation using the ship's boilers to produce freshwater and refilling the freshwater tanks
- coaling of the ship
- discharging ashes onto a lighter
- weather recording: temperature, wind speed and direction, barometer readings, state of the sea
- recording the ship's behavior (heavy rolling or pitching)
- testing flood cocks in magazine and gun rooms
- crew conducting ship maintenance: engine maintenance/repair, general ship cleaning, bilge cleaning and checking pumps, scraping and painting - and sometimes tarring and caulking - the ship's hull and infrastructure, life buoy maintenance/repair, turned and cleaned hammocks and bedding, steam cutter maintenance/repair, steam/sail launch maintenance/repair
- crew conducting drills: furling and unfurling sails, target practice with the main battery (great guns), target practice with the air gun, floating target practice, general quarters drills, small arms drills, fire drills, torpedo drills, passing powder drills, abandon ship drills, gatling gun drills, battalion drills, landing party drills, navigation drills, Winchester Hotchkiss Magazine Rifle drills, target practice with targeting hanging from a yardarm, Morse signal drills, basic medical training (tourniquets, resuscitation),
- Marine Guard infantry tactics drills
- cadet/apprentice drills
- receiving fresh water from shore through pumps or lighter

- receiving provisions and stores: food, medical supplies, clothing, engineering gear, construction
- Quarterly Board of Survey's findings of condemned articles on board (food, equipment) and their fate (food was usually tossed overboard) from the inventories of the different ship's departments (Ordnance, Engineering, Navigation, Equipment, Medical, Pay)
- crew promotions
- crew quarters inspection
- liberty parties sent ashore
- lists of new crew members - recruits or transfers from other ships- taken on board during a cruise
- crew transfers to other ships
- crew members in solitary confinement or other punishments for various infractions, AWOL crew, general and summary court martial proceedings, AWOL crew put in irons
- rewards offered for the return of AWOL crewmen
- weekly Sunday services; after the services, once a month, the Articles for Better Government of the Navy were read to the crew

NOTE: The *Essex* deck officers who recorded the daily happenings on the ship often translated the names of non-American ships incorrectly. MHM determined the correct spellings of the ships and those corrections are reflected in the Finding Aid, not the poorly transliterated ship names.

At the beginning of Log Books 21, in mid-June 1886, the USS *Essex* was moored at the Brooklyn Navy Yard. On June 21 she was recommissioned for active duty service in the US Navy under Commander Theodore Frelinghuysen Jewell. From June 22-to the end of month, Navy Yard workmen painted the ship and *Essex* received a small number of men from US Receiving Ship *Vermont*. The crew also conducted general cleaning of the ship.

On July 1, 1886, *Essex* received a large number of from USRS *Vermont*. Over the next two days, watches start being held on board and men were already arriving overdue from leave. On July 4, Commander Jewell inspected the ship and the first muster since *Essex* was recommissioned finds six men AWOL. On July 5, colors were hoisted at each mast and large numbers of Brazilian officers with the drum corps paid their respects to the Commanding Officer of the Navy Yard. For the next week, *Essex* received stores for Equipment,Ordinance, Navigation, Medicine Provisions, Clothing, and Pay Departments. On July 12 a large number of naval apprentices arrived from frigate US Training Ship *Minnesota,* and crewmen AWOL for ten days were declared deserters. During the next week, more crewmen transferred from USTS *Minnesota*, a visitor was found onboard with liquor and he was sent under a guard to the Navy Yard gate. *Essex* was coaled, her engine tested, and the dispatch boat USS *Despatch* left the Navy Yard. On July 19, the ship left the Navy Yard dock and the Navy Yard tug USS *Catalpa* took *Essex* alongside the monitor USS *Nantucket*. Over the next week, Navy Yard workman prepared the *Essex* for sea, crewmen were sent to USRS *Vermon*t for a

concert, sloop-of-war USS *Juniata* arrived at the Navy Yard, and steel protected cruiser USS *Atlanta* went into commission (*Atlanta* was one of the first steel warships of the 'New Navy'; one of the ABCD ships). A set of sails and sail equipment was brought on board, Marine Guard drilled on shore, Commander Jewell took leave and returned, and an 11-gun salute was fired from Navy Yard battery. On July 27, Commander Jewell and the ship's Navigator left *Essex* to inspect the electrical plant of the steam yacht *Electra,* a Harlan & Hollingsworth-built steam yacht. The next day, the crew filled the two starboard water tanks from Navy Yard fire plug. On July 30 an Officer from a Brazilian frigate paid an official visit to *Essex* and a crewman was transferred to the Navy Hospital. The next night, a Marine sentry found asleep at his post and he placed under arrest (he received a dishonorable discharge from the US Marine Corps during his General Court Martial on August 7). Throughout the last two weeks of July, the crew conducted General quarters drills, provisioning boat drills, and abandon ship drills, while ship cleaning and maintenance continued, including overhauling the life buoys.

On August 1, 1886, Navy Yard Marines delivered a drunken crewman to the *Essex* and the next day, USS *Juniata* left the Yard and the ship's crew received their clothing for their upcoming cruise. Over the next 8 days, *Essex* received on board all her ship's boats - except the steam cutter - and received men from USRS *Vermont and* sloop USS *Vandalia*, while *Essex* transferred some men to *Vandalia* as well. USS *Catalpa* moved *Essex* to coal the dock, she took on board one sounding machine along with powder and shell, fireworks, laboratory stores, and other items. The log also details items recently found missing from Medical Department that included bottles of whiskey, port, brandy, and alcohol - and the ship's steam launch broke a connecting rod. *Essex* moved with the aid of the *Catalpa* to an anchorage off Ellis Island. The officers also exercised the crew at general quarters and conducted battalion drills. USS *Vandalia* and USS *Atlanta* (towed by two tugs) left the Navy Yard and headed down the East River. USS *Catalpa* returned to the Navy Yard. On August 10, the crew was put through extensive abandon ship drills that involved getting every crew man onto ship's boats and launching them in the river; one crewman injured his foot while recovering the steam launch. Over the next 2 days, Navy Yard workmen working on ship's plumbing in forecastle, the Engineering Department brought on board essential stores and the crew went through general quarter, fire quarter, Infantry, boat, and abandon ship drills. *Essex* was visited by Rear Admiral James Edward Jouett, President of the Board of Inspection and Survey, boarded *Essex* along with the Board and commenced an inspection of the ship; the crew beat to quarters and were inspected.

On August 12, sloop-of-war USS *Brooklyn* went to sea and exchanged signals with *Essex*, and then she steamed out of the harbor. *Essex* noted the Sandy Hook Lightship and returned to her anchorage off 34th Street in the North River. The Admiral and the Board of Inspection then left the ship. Over the next week, provisions arrived for all the ship's departments and the whale boat's bow detached from her davit and dropped, spilling boat equipment into the water; not all of it was recovered. Commander Jewell left *Essex* for official visits and nearly daily, crew were reported AWOL and rewards were offered to the local police for their return. On August 19, the ship left the North River and anchored off Ellis Island. A water boat came alongside the ship and 3,100

gallons of water was transferred to *Essex*. Commander Jewell left the ship for three days. On August 20, the steam launch was sent ashore for more soft coal and the next day, launch was disabled due to her bottom blow pipe being stopped up. On August 23, *Essex* steamed to Wallabout Bay to the coal dock at the Brooklyn Navy Yard - USRS *Vermont* exchanged signals with her and Commander Jewell returned from his leave. For the remainder of August, the steam cutter was turned over to Navy Yard authorities to be fitted with torpedoes, *Essex* received a supply of torpedoes and other ammunition, and the Navy Yard workmen repaired the ship's heads. The Jacob's ladder on the mainmast was damaged when the topgallant masts were fidded. The Ordinance and Pay Departments received more provisions and a salute was fired from the Ordinance Dock Battery. A Navy tug towed *Essex* to the coal dock, Navy Yard tug USS *Nina*, and steamer *Boshin* entered the Yard; *Boshin* was intended for Naval service.

On September 1, 1886, *Essex* took on miscellaneous supplies and received the last of her crew from USRS *Vermont*. The next day, *Essex* took on board one case of Herreschoff launch fittings intended for delivery to USS *Brooklyn*. *Essex* then left the Navy Yard and stood down the East River heading to Gibraltar, passing the Sandy Hook Lightship. On September 3, the crew took soundings, engaged in practice reefing & hoisting sails, and all divisions engaged in target practice with the air gun. The next day, water was discovered in fore hold and pumping commenced for rest of the day. However, at the end of day, bilge pump broke and repairs were made. On September 5, the crew continued pumping the forward hold since it still contained 2-5 inches of water. As the ship sailed, the crew sighted a brig. The next day, the ship was still being pumped and the bilge pumps were working badly due to their being clogged with wood chips left over from *Essex's* 1884-1886 overhaul. Over the next two days, the crew drilled with the great guns, had gunnery practice using a floating target, and the Marine Guard conducted infantry drills. The magazine and shell room were aired and an inventory of powder expended during practice was kept. The crew attempted to tack the ship and had three failed attempts; on the fourth attempt the sailors wore the ship instead and was successful. The bilge held six inches of water before the bilge pumps were repaired and the water successfully pumped out.

On September 8 while under sail, *Essex* hoved to for torpedo practice and the resulting explosive concussion broke two lantern globes hanging in lamp locker room underneath the port side of forecastle. The next day, the crew received instruction in locating arteries and the application of tourniquets. The rest of September was spent sailing toward Gibraltar. During that time, the crew sighted one barkentine, one hammock was lost overboard, the ship passed through frequent patches of floating oil, the crew had Hotchkiss rifle, Gatling gun, and air gun practice, as well as additional medical training in applying tourniquets and resuscitation practice. Signalmen were instructed in codes, the men learned to use the deep sea sounding machine, officers gave quarterly board examinations of apprentices, and the crew had night gunnery practice. The patent log was fouled with gulfweed and developed kinks in its line. On September 20, the engines were used to keep head to wind and the ship rolled greatly at times; the greatest roll was 20 degrees. The next day, during one sounding exercise, the men lost one sinker and 20 fathoms of wire. The ship continued to roll greatly; the greatest roll was 30

degrees to starboard and 20 to port. On September 29, a barque was sighted, *Essex* exchanged colors with French transatlantic ocean liner *Saint-Laurent*, and the next day, more barques were sighted.

On October 3, 1886, the crew sighted several sailing vessels, three steamers, and two English men-of-war. The next day, the crew prepared for the port and passed five steamers and one barque, circling outside Gibralter Harbor in the early morning. *Essex* took anchor at Gibralter and a Medical Survey was held on one of the ship's crewmen. He was transferred to the sloop-of-war USS *Kearsage* for transport back to US, having been condemned by the Medical Survey. Visits were received by an officer from gunboat HMS *Grappler* and the American Consul. Over the next four days, courtesies were exchanged with officers of the sloop-of-war USS *Kearsage*, sloop HMS *Sylvia,* Spanish corvette *Caditana*, the Governor General of Gibraltar, and the Senior Naval Officer of the Gibraltar Navy Yard. *Essex* took on coal and provisions, and Commander Jewell offered rewards for the return of AWOL crewmen. Signals from the shore from the local police stated they arrested several *Essex* men for various offenses. *Essex* retrieved and confined the men and rewards were paid. Commander Jewell also disrated two crewmen and transferred them to sloop USS *Pensacola* for transport back to the US. USS *Kearsage* and seven streamers left Gibraltar, and four English steamers, one Italian barque anchored, seven other steamers, and another barque anchored in the port.

On October 9, before *Essex* left Gibraltar, the ship's Pay Clerk left her, having resigned. After passing Europa Point, *Essex* passed a steamer and felucca. The next day, the Engineering Crew hauled fires under two boilers because of leaky tubes, and the crew spotted several steamers and sailing vessels. Over the next 4 days, the crew used the Thomsons machine - the casting lead used for soundings - to check the water depth. The flood cocks were tested in the magazine and gun rooms to ensure the ordinance remained dry, and the helm was swinging ship when under steam to deck for compass deviations. The men exercised at small arms target practice on a floating target, on a target hanging from a yardarm, and at the great guns. As *Essex* moved along, she passed a brig, barque, brigantine, and 13 steamers. On October 15, a large leak developed in the #6 and #8 boilers, resulting in their shutdown. The ship anchored in Valetta Harbor, Malta, and received a preliminary visit of courtesy from Rear Admiral W.F. Ward, Royal Navy, the superintendent of the Malta Dock Yard. Courtesy visits were then exchanged with US Consul T.F. Worthington, US Vice-Consul C.B. Eyman, the Governor of Malta, Consul Worthington, Vice-Consul Eyman, Admiral Ward. For the next six days, the English troopship *Geelong* anchored and then left the harbor. Dispatch vessel cruiser HMS *Iris,* HMS troopship *Crocodile*, turret ship HBMS (Her Britannic Majesty's Ship) *Orient*, sloop HMS *Cruiser,* ironclad HMS *Orion*, gunboat HMS *Albacore*, sloop HMS *Pegasus*, and sloop HMS *Gannet** entered the harbor and anchored. Official visits were exchanged with the aforementioned British ships in addition to the Superintendent of the DockYard. HBMT (Her Britannic Majesty's Troopship) *Crocodile* and HMS *Iris* left harbor.

On October 21, *Essex* left Valetta Harbor and found two stowaways on board: Jon Davis and David Anderson belonging to steamer *Manithorp*. Over the next three days, the engineers once again hauled fires under boilers #6 and #8 because of a leak, *Essex* passed 6 steamers (one of them was Italian), and the ship encountered drifting fog banks. On October 26, *Essex* anchored outside Port Said, Egypt; Commander Jewell ordered a rocket be sent up to alert the port pilot. The pilot came on board and directed the ship into Port Said Harbor and moored in the eastern side. For the next five days, *Essex's* two stowaways from Malta - who had been put under sentries on board *Essex* - were sent ashore to the English Consul. Gunboat HMS *Starling*, French corvette *La Lendre*, and three steamers anchored in the port. Official visits were exchanged with the Governor of Port Said His Excellency Ibrahim Pacha (Pasha), US Vice-Consul Mr. Broadbent, Egyptian frigate *Essaca*, corvette HMS *Coquette*, HMS *Starling,* and the French corvette *La Lendre*. The crew was busy cleaning the bilges and enjoying liberty; several crewmen were punished for drunkenness. *Essex* took on coal and other provisions. On October 30, an Egyptian pilot boarded *Essex* and she up-anchored and proceeded through the Suez Canal. The log notes navigation points known as K14, K24, etc. Pilots were exchanged at Ismalia and the next day, *Essex* moored on the western bank of Suez Canal for the night.

November 1, 1886, USS *Essex* entered Great Bitter Lake and passed two steamers; she tied up at K33 to allow three steamers to pass and then tied up at K152 to allow passage of English troopship *Euphrates*. She passed Suez and anchored to allow the US Consular Agent at Suez on board. *Essex* then stood out into the Red Sea and passed two steamers. The next day, she entered the Gulf of Suez; the crew sighted two wrecks - a steamer and a sailing vessel. Over the next five days, the crew exercised at Morse signals, passed one steamer and sighted 2 steamers, and exchanged colors with British steamer *Erin*. On November 7, the crew observed two shooting stars with a flight of about 10 seconds, and passed a steamer showing no port side lights. *Essex* stopped for 30 minutes to repair the feed pump and once underway, the helm took to swinging the ship to determine if there was compass deviation. The log noted the deceptive appearance of broken seas ahead; the ship was order to stop and take soundings - no bottom was recorded. The next day, exchanged colors with a passing German steamer. On November 9, the crew noted two wrecks on the east side of the beach on Jebel Zukin Island. One wreck was a large steamer with her masts and funnel still standing, with her head to the Island, and her hull half out of the water. The other wreck was a sailing vessel with her masts gone and stern thrown onto the beach. *Essex* sighted an iron steamer and exchanged colors with a French gunboat, Japanese cruiser, an English merchantman, and British steel steamer *Clan Drummond*. The next day, the crew continued to take soundings and colors were exchanged with an English steamer. *Essex* stood through the Straits of Bab-el-Mandeb and traveled along the Arabian Coast; she exchanged colors with the English steamer *Patosi* and a French steamer, and sighted another steamer. The ship anchored for the night off of Aden at Steamer Point. On November 11, an Aden health boat came alongside and after an inspection, Essex obtained a pratique - permission for the ship's complement to leave the ship.

Over the next six days, *Essex* put crew mail on the Peninsular and Oriental Steam Navigation Company (P&O, an English business) steamer *Ganges* before she left harbor. The crew overhauled the used wire for deep sea soundings, the steam cutter was sent out to exercise with torpedoes; the cutter's guide brasses were reported to be worn out and repairs were made. The ship took on provisions and discharged a load of ashes onto a lighter. The India Marine steamer *Amber Witch,* French gunboat *Capricorn*, English P&O mail steamer *Kaisar-i-hind* with mail from London, and five other steamers anchored in the port. The usual courtesies and visits were exchanged with the US Consul, Commander of the English East-India Squadron Rear Admiral Sir Charles Richards, Military Governor of Aden Colonel Gosset, ironclad corvette HBM Flagship *Bacchante,* sloop HMS *Mariner*, sloop HMS *Penguin*, and *Amber Witch*. An unusually high tide flooded the deck of a wrecked German steamer in harbor. Taking advantage of the high water, harbor tugs moved the sunken steamer. *Amber Witch* and two Italian steamers - one of them was a mail vessel - left port. On November 17, *Essex* left Aden headed across the Arabian Sea for Colombo, Ceylon (Sri Lanka); she exchanged colors with an English steamer and passed a P&O ship. The next day, the ship was passing along the Somalia Coast; boilers #6 and #8 were once shut down due to a bad leak. The crew took soundings every day to determine water depth along the coast. On November 24 and 25, the crew observed a comet in the night sky; it became known as Comet Finlay, a periodic comet that is visible from the Earth every seven years. Comet Finlay came to its closest approach to the sun (perhelion) on December 27, 2014. Also on November 25, the helm stopped *Essex* due to a water disturbance sighted ahead. The crew took soundings that showed no bottom, and the disturbance was later seen to be caused by large quantities of phosphorescent animals in the sea. The crew conducted gunnery exercises, and the starboard quarter pennant was found gone - from an unknown cause. The ship exchanged colors with English steamers on November 27, 29, and 30, and two other steamers were sighted.

On December 1, 1886, *Essex* passed a Russian steamer and a barque. The next day, she anchored in Colombo, Ceylon (Sri Lanka). Over the next three days, the ship was coaled, provisions were loaded on board, liberty parties went ashore, and Commander Jewell conducted official visits. Also, P&O steamer *Clyde* left the harbor, an English steamer entered the part and anchored, and P&O steamer *Tasmania* anchored astern of the *Essex*. On December 6, Essex left Colombo Harbor, heading for Singapore. On December 8, *Essex* experienced incredibly rough seas - the ship rolled between 25 to 35 degrees, with one leeward roll measured to 40 degrees. During the 'big roll', the ship's gig filled with water and washed overboard. Other damage and losses included a split jib that required repair and the carrying away of the steam cutter's cradle. The ship hoved to under shortened the sail, but heavy cross seas washed away one IV-inch tampion and muzzle bag. Since *Essex* was stopped, it was decided to pour coconut oil into the sea at the stern; it made an appreciable smoothing effect on the following sea. In the evening, the weather abated enough to get underway again. The next day the seas became rough again and the ship rolled 25-30 degrees; the seas improved later in the day.

Over the next 7 days, the crew engaged in gunnery practice. On December 14, during torpedo practice, an exercise torpedo exploded prematurely and injured six men; one of whom died shortly after. Commander Jewell ordered the ship stopped ship for the burial service for Peter Hagle, the coordinates were recorded where his shipmates left his body overboard for a burial at sea. A Board of Investigation was formed to determine what caused the torpedo malfunction. After getting underway, *Essex's* engine was stopped for repairs that only took a few hours to complete. Underway again, the crew observed a number of reddish brown snakes swimming in the water over a couple of days. At one point, the ship was ordered turned to investigate suspected floating wreckage; it turned out to be tree trunk. Later, *Essex* passed a quantity of floating logs, tree stumps, brush wood - and several drifting canoes.** *Essex* exchanged colors with English and Dutch steamers, sighted a German steamer, and passed a French troopship, an English steamer, and three other steamers. On December 17, the ship was nearing Singapore. She passed 6 steamers, several native boats, a French steamer, exchanged colors with American bark *Wildwood* out of Boston, and stood into Singapore Harbor and anchored the next day. *Essex* remained at Singapore through the end of December.

A Medical Survey on board recommend that three *Essex* crewmen be transfer to the Civil Hospital of Singapore; Commander Jewell complied with the request. The steam launch was disabled by the breaking of a valve stem guide of the engine's high pressure cylinder; it was sent ashore for repairs along with other various pumps to be refitted. All hands were exercised at shifting sails. At one point, a main deck awning on the port side caught fire from the galley funnel and burned holes in three clothes; it was later repaired. Liberty parties were sent ashore; later, men found AWOL and rewards were posted for their return, with some money claimed by local authorities. Throughout the last half of December, *Essex* officers extended and received the usual courtesies with numerous dignitaries and ships: US Consul A.G. Studer, Esq., the Colonial Society, Mr. Mayne, advisor to the Governor of the Colony, sloop HMS Satellite, gunboat HMS *Zephyr*, Dutch ironclad turret ram *Prins Hendrik der Nederlanden****, and Russian screw clipper *Dzhigit*. As these vessels moved out of and back into the harbor, *Essex* exchanged colors and signals with Dutch *Prins Hendrik*, HMS *Satellite*, and Russian screw clipper *Dzhigit* - she fired a salute with English colors at the fore and the on-shore fort responded. In addition, the *Essex* crew recognized the activities of the busy port, reporting that three sailing vessels and five steamers left the harbor and nine steamers came to anchor. On December 30, the crew observed a large fire in Singapore and the next day, three steamers and HMS *Satellite* left the harbor - and *Satellite* re-entered the harbor later in the day - while USS *Essex* distilled water for ship's use all day.

*HMS *Gannet* is still afloat as a museum ship in Chatham, England.
**MHM suspect the canoes and floating detritus were drawn into the Indian Ocean during the high swells experienced by *Essex*.
***Essex log books 19-20 misidentified Dutch warship *Prins Hendrik der Nederlanden*; MHM identified the discrepancy in those books and corrected it.

Tags:
American Ships: steel protected cruiser USS *Atlanta*, steamer *Boshin*, sloop-of-war USS *Brooklyn*, Navy Yard tug USS *Catalpa,* dispatch boat USS *Despatch*, steam yacht *Electra*, sloop-of-war USS *Essex*, sloop-of-war USS *Juniata*, sloop-of-war USS *Kearsage*, frigate USTS *Minnesota*, monitor USS *Nantucket*, Navy Yard tug USS *Nina*, sloop USS *Pensacola*, USRS *Vermont*, bark *Wildwood*

British Ships: gunboat HMS *Albacore*, ironclad corvette HBM Flagship *Bacchante*, corvette HMS *Coquette*, HMS troopship *Crocodile*, sloop HMS *Cruiser*, steel steamer *Clan Drummond*, steamer *Erin*, troopship *Euphrates*, steamer *Ganges*, troopship *Geelong*, gunboat HMS *Grappler*, dispatch vessel cruiser HMS *Iris,* mail steamer *Kaisar-i-hind*, sloop HMS *Mariner,* turret ship HBMS *Orient,* ironclad HMS *Orion*, steamer *Patosi*, sloop HMS *Penguin*, sloop HMS *Satellite*, gunboat HMS *Starling*, sloop HMS *Sylvia*, gunboat HMS *Zephyr*

Dutch Ship: ironclad turret ram *Prins Hendrik der Nederlanden*

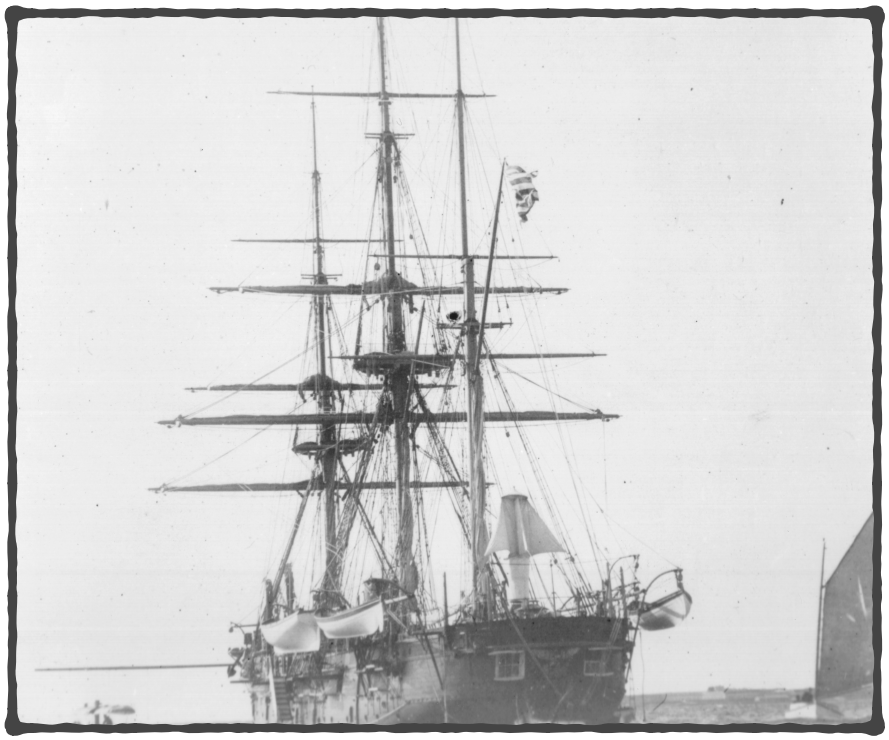
Egyptian Ship: frigate *Essaca*

French Ships: gunboat *Capricorn*, corvette *La Lendre*, transatlantic ocean liner *Saint-Laurent*

Russian Ship: screw clipper *Dzhigit*

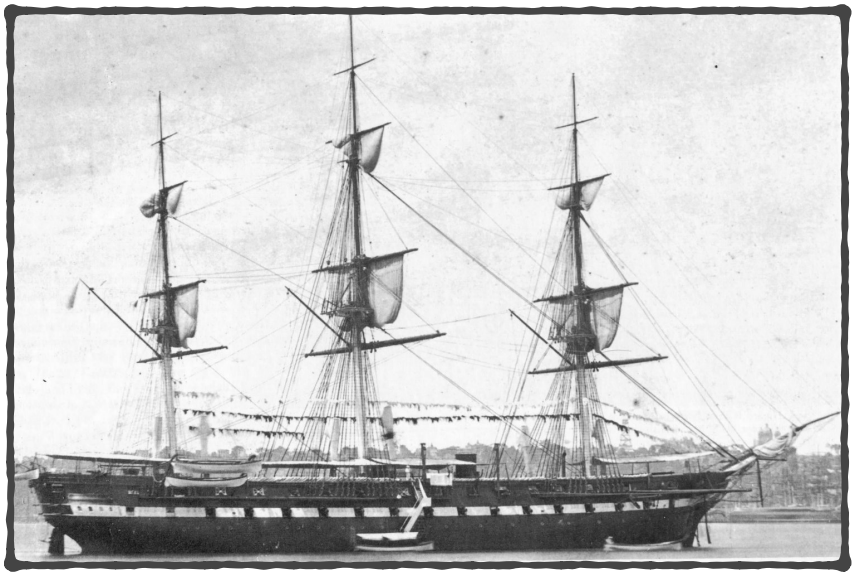
Spanish Ship: corvette *Caditana*

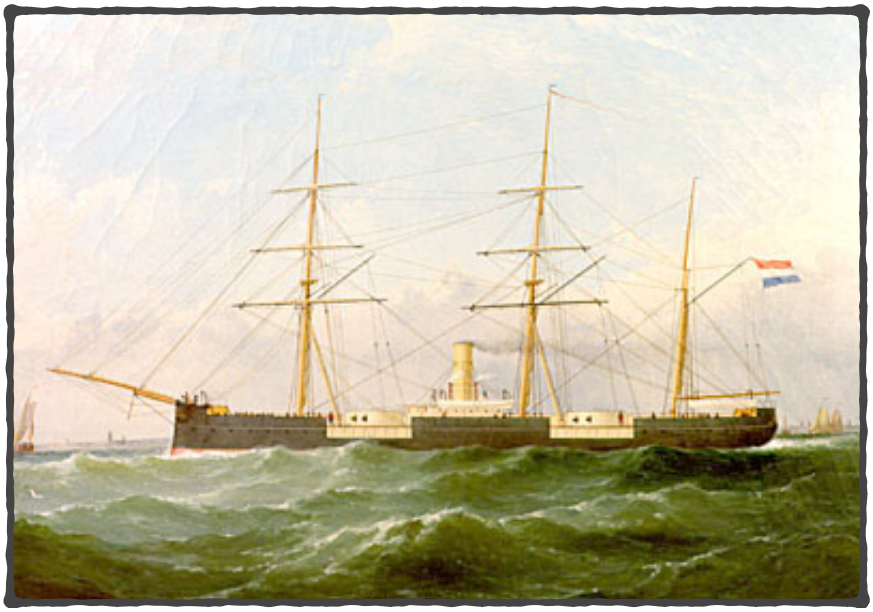
USS *Essex*



Wildwood

USS *Minnesota*





SS *Saint-Laurent*

LOG BOOK

OF THE

U. S. S. "Essex"

3rd RATE

OF Six GUNS,

COMMANDED BY

Commander T. F. Jewell, U. S. Navy,

Attached to Asiatic Squadron,

Commencing June 21st, 1886,

at New York,

and ending December 31st, 1886,

at Singapore

BUREAU OF NAVIGATION,

NAVY DEPARTMENT.

1886.

CIRCULAR INSTRUCTIONS.

BUREAU OF NAVIGATION,

NAVY DEPARTMENT, *March* 1, 1886.

The attention of Commanders of vessels of the Navy is called to the following extracts from the "Regulations for the government of the United States Navy," in regard to entries to be made in, and the manner of keeping, the Log Book; and they are enjoined to rigidly enforce a careful and scrupulous compliance with all and every requirement embraced in these Regulations, and to see that the blanks are correctly filled, to the end that the Log Books of the Navy may be full, true, and perfect records of all transactions that take place relating to the service both at sea and in port.

JOHN G. WALKER,

Chief of Bureau.

Extracts from the U. S. Navy Regulations relative to Log Books.

CHAPTER V, SEC. IV, ART. 29.—He (commanding officer) will never use more than two-thirds boiler-power, unless in an emergency, which must be fully entered and explained upon the log, and a special report of it made to the Secretary of the Navy.

CHAPTER V, SEC. IV, ART. 84.—Should he (commanding officer) be unable to attend at the investigation of an offense, the reasons will be noted in the log over the signature of the executive officer.

CHAPTER V, SEC. IV, ART. 134.—In case of shipwreck, or any other disaster whereby the ship may be lost, the commanding officer, with the officers and men, will remain by her as long as practicable, and save everything possible; particularly the log, muster, pay, and receipt books, and valuable papers.

CHAPTER V, SEC. IV, ART. 145.— * * * * * When anchoring, he (commanding officer) is to select a safe berth, and in places which are but partially surveyed he will have the depth of water and quality of the ground examined for at least three cable-lengths around the ship, and will also have such bearings and angles taken and noted in the log-book as will enable him to recover an anchor in case of loss.

CHAPTER V, SEC. V, ART. 38.—All general orders received from the Navy Department, or published by authority, are to be read to the officers and crew at the first general muster after their receipt, by the executive officer, and the fact entered upon the log.

CHAPTER V, SEC. VI, ART. 6.—He (navigator) will have charge of the ship's log-book, commencing it on the vessel being put in commission; he will see that all particulars are duly entered according to prescribed forms; he will see that the watch officers sign their remarks daily, and he will take it to the commanding officer for his inspection at noon of each day.

CHAPTER V, SEC. VI, ART. 7.—There shall be entered on the deck-log and log-book, with minute exactness, the following particulars:

1. The name and rank, or rating, of all persons who may join or be discharged from the vessel; all transfers, deaths, and desertions; the names of all persons made prisoners by an enemy, and of all absent without leave; the names of all passengers, with times of coming aboard and leaving; the direction of the wind, state of the weather, courses steered, and distances sailed; the time when any particular evolution, exercise, or other service was performed; the signal number of all signals made, the time when, by what vessels, and to what vessels, they were made; the nature and extent of all public punishments inflicted, with the name and crime of the offenders; the rating and disrating of petty officers; the result of all observations made to find the ship's position, and all dangers discovered in navigation.

2. The grounding of the ship, and the loss of or serious injury to boats, spars, sails, rigging, and stores, with the circumstances under which they happened, and the extent of the injury.

3. An account of all stores received, from whom, and the department for which they were received.

4. An account of all stores condemned, or converted to any purpose other than that for which they were intended.

5. An account of all stores loaned, or otherwise sent out of the vessel, and by what authority.

6. All marks and numbers of each cask or bale which, on being opened, is found to contain less than is specified by the invoice, with the deficiency.

7. Every alteration made in the allowance of provisions, and by whose order.

8. The employment of any hired vessel, her dimensions in tonnage, the name of the master or owner, the number of her crew, for what purpose employed, by whose order, and the reasons for her employment.

9. The draught of water, light and loaded, as furnished at the navy yard, and always on going into or leaving port.

CHAPTER V, SEC. VI, ART. 9.—The navigator will deliver to the commanding officer a certified copy of the log-book, every six months, to be transmitted to the Bureau of Navigation; the original being kept by the vessel until she is paid off, when it will be placed in charge of the commanding officer of the yard.

CHAPTER V, SEC. VI, ART. 19.—In stowing provisions, he (navigator) will take care that the oldest be stowed so that they will be the first issued, and when the stowage is completed he will make an entry on the log-book specifying the quantity and arrangement of the ballast, the number, size, and disposition of the tanks and casks, and the quantity and stowage of provisions and other stores.

CHAPTER V, SEC. VI, ART. 20.—The plans of the stowage of the hold are to be inserted in the log-book; and if any material change is afterward made it must be noted, and a new plan inserted.

CHAPTER V, SEC. VI, ART. 25.—Should he (navigator) be removed or suspended, he will sign the log-book and deliver it to his successor, taking his receipt for it and for all articles under his charge.

CHAPTER V, SEC. VII, ART. 4.—Throughout his watch he (watch officer) is to be careful that the vessel is properly steered; that a correct account is kept of her speed and leeway; and that the courses and distances, together with every occurrence of importance or interest, are plainly entered on the deck-log, which he is to sign at the conclusion of his remarks, on the termination of his watch.

CHAPTER V, SEC. VII, ART. 8.—He (watch officer) will see that the meteorological observations are taken and recorded as per form in log-book; and, on indications of the approach of gales or hurricanes, will cause hourly or more frequent observations of the barometer and thermometer to be made, and every change in the force and direction of the wind to be recorded.

CHAPTER V, SEC. VII, ART. 18.—He (watch officer) will take care that an accurate account is taken of all stores received or sent from the vessel; that those which are received are delivered to the proper officer, and that the number or quantity received or sent is correctly entered on the log.

DIRECTIONS FOR KEEPING THE SHIP'S LOG.

The Log Book is to be kept by CIVIL TIME.

The several blanks in the heading of each opening of the Log Book are to be correctly filled—

1st. By the *character* or description, *name*, and official *Rate* of the vessel, (Sailing, Screw, or Side-wheel.)

2d. By the Rank and full name of the officer commanding the vessel.

3d. By the position of the vessel, as "At Sea, Gulf of Mexico;" or, "At Sea, West Indies;" or, "At Sea, British Channel;" or, "At Sea, making passage to ———;" or, "At Sea, Cruising," &c.; and squadron to which attached, or the name of the port or place, if at anchor; then the day of the week, day of the month, and the year.

4th. In the first and second blank columns are to be entered the distances, in knots and tenths, run by the Log during the respective hours while under way. The distance by Patent Log will be noted, in the third column, as often as hauled in.

5th. In the fourth blank column is to be entered the actual courses by Standard Compass made good during the respective hours while at sea.

6th. In the fifth blank column, under the heading "Winds," "Direction," is to be entered the Standard Compass courses from which the winds blow during the respective hours, both at sea and while in port, or at anchor.

7th. In the sixth blank column, under the heading "Winds," "Force," is to be entered the estimated force or strength of the wind for the respective hours, according to the table, both at sea and while in port, or at anchor.

8th. In the seventh column the estimated heel of the vessel is to be noted in degrees every hour.

9th. In the eighth blank column the estimated Leeway is to be entered every hour in points.

10th. In the ninth blank column, headed "Barometer," is to be entered the readings of the Barometer, in inches and decimal parts, for the respective hours at all times.

11th. In the tenth, eleventh, twelfth, and thirteenth columns, headed "Ther. att'd," "Thermometer," "Air, Dry Bulb," "Air, Wet Bulb," and "Water at surface," are to be entered, respectively, the temperature of the air by the Thermometer attached to the Barometer; the temperature of the air by the Dry Bulb Thermometer which is not attached to the Barometer; the temperature of the air by the Wet Bulb Thermometer, and the temperature of the water taken from alongside of the vessel, for the respective hours at all times.

12th. In the fourteenth blank column, headed "State of the Weather, by symbols," is to be entered the distinctive characteristics of the weather for the respective hours at all times, in conformity to the table of Weather Symbols.

13th. In the fifteenth blank column, headed "Forms of Clouds, by symbols," is to be entered the distinctive characteristics of the clouds for the respective hours at all times, in conformity with the contractions employed to represent the nomenclature of the Primary and Secondary forms of Clouds, as set forth in the table.

14th. In the sixteenth blank column, headed "Prop. of Clear Sky, in tenths," is to be entered, for the respective hours at all times, the proportion of clear sky in parts from 1 to 10; thus, 0 will represent "entirely overcast," while 3 will represent "^{3} of the heavens, clear sky;" 7 will represent "^{7} of the heavens, clear sky," &c.

15th. The "State of the Sea" is to be recorded in the seventeenth blank column, under that heading, for the respective hours at sea and at exposed anchorages, by the letters employed to represent the several terms used in the table.

16th. The blanks in the lines between the 12 (noon) and 1 p. m. hours, are to be carefully and correctly filled, as far as applicable, daily, either by numbers or by the word "none," or "no observation." The blanks at the end of the lines at the bottom of the left-hand page are to be filled in the same way daily, as far as applicable.

When the moon (☽) or star (*) is used, it should be noted by its proper sign.

When the Longitude is obtained by Lunar distances, note it by its proper sign (☉ ☽) or (* ☽).

The record of all astronomical observations for Latitude, Longitude, and Variation of the Compass should indicate the heavenly bodies observed by their proper signs, ☉, ☽, *, both at sea and in port.

The blank after water, in the line "Water——— during the preceding 24 hours," to be filled with *received on board* or *distilled*.

17th. On the blank pages on the right side of each opening, headed "Record of the Miscellaneous Events of the Day," is to be entered daily, in the regular order of time, in plain language, every official transaction (which has not been entered in the proper column at the left side) that takes place on board of the vessel, and in view of it, as prescribed by the Regulations of the Navy; also the sail actually set and drawing at the end of each watch at sea.

The record of the weather, &c., "as per column," under these Remarks is not to be allowed, but the whole is to be written out as though there were no columns.

The Remarks are to be written for each watch, and not for 24 hours, either in port or at sea.

18th. In addition to the records made by the proper symbols in the respective columns, headed "State of the Weather," "Forms of Clouds," "Proportion of Clear Sky," and "State of the Sea," the general character and appearance of the weather, the kind of clouds, and the directions in which they move, and the state of the sea during each watch, will be recorded in the general miscellaneous remarks in popular and professional language, as is indicated in the Synopsis of Words and Phrases appended.

19th. *Log Books are often found deficient in information relating to injuries, accidents, and casualties happening among officers and crews. The large number of claims for pensions submitted by persons who have served in the Navy, alleging injury received while in the Naval Service, renders this information of great importance to the Government, both to protect it from false claims and to furnish a record for honest claimants; therefore entries shall be made in the Log books of any and every injury, accident, or casualty, however slight, among the officers, crew, or passengers on board, giving the particulars of such injury, accident, or casualty.*

The Smooth Log Book is to be a correct certified copy of the Rough Log.

WINDS.

The following numbers indicate the force of the Winds, as applied to a sailing vessel close-hauled by the wind.

0.—Calm.
1.—Light airs, (or just sufficient to give steerage-way.)
2.—Light breezes. (All sail may be carried, and make from 1 to 2 knots per hour.)
3.—Gentle breezes. (All sail may be carried, and make from 3 to 4 knots per hour.)
4.—Moderate breezes. (All sail may be carried, and make from 5 to 6 knots per hour.)
5.—Stiff, or fresh top-gallant breezes. (Courses, jib, spanker, whole top-sails, and top-gallant sails may be carried.)
6.—Fresh breezes. (Top-gallant sails over single-reefed top-sails, courses, jib, and spanker may be carried.)
7.—Fresh breezes. (Double-reefed top-sails, whole courses, jib, and spanker may be carried.)
8.—Moderate gales. (Three-reefed fore and main, close-reefed mizzen-top sail, with single reefed courses and fore-top-mast stay-sail, may be carried.)
9.—Strong gales. (Three-reefed fore and main-top sail, with close-reefed courses and fore-storm-stay-sail, may be carried.)
10.—Gale. (Close-reefed main-top-sail and close-reefed fore-sail, with fore-storm-stay-sail, may be carried.)
11.—Heavy gale. (Storm-sails *only* can be carried; or close-reefed main-top-sail and fore-storm-stay-sail, or stay-sails only.)
12.—Hurricane. (No sail can be carried; lying to or scudding under bare poles.)

SYMBOLS *to be used in recording the* STATE OF THE WEATHER *in the proper column.*

b.—Clear blue sky.
c.—Cloudy weather.
d.—Drizzling, or light rain.
f.—Fog, or foggy weather.
g.—Gloomy, or dark, stormy-looking weather.
h.—Hail.
l.—Lightning.
m.—Misty, or hazy weather.
o.—Overcast.
p.—Passing showers of rain.
q.—Squally weather.
r.—Rainy weather, or continuous rain.
s.—Snow, snowy weather, or snow falling.
t.—Thunder.
u.—Ugly appearances, or threatening weather.
v.—Variable weather.
w.—Wet or heavy dew.

SYMBOLS *to be used in recording the* FORMS *and* APPEARANCE OF CLOUDS *in the proper column.*

Cir.—Cirrus	———	Primary form.
Cir. Cum.—Cirro-cumulus	———	Secondary form.
Cir. Str.—Cirro-stratus	———	Secondary form.
Cum.—Cumulus	———	Secondary form.
Cum. Str.—Cumulo-stratus	———	Secondary form.
Nimb.—Nimbus	———	Primary form.
Str.—Stratus	———	Primary form.

CLASSIFICATION OF CLOUDS.

PRIMARY CLOUDS.

Cirrus—"Consists of light and feathery-streaked filaments, seen in clear weather."

Cumulus—"Is composed of huge hemispherical masses, apparently resting on a horizontal base; occurring chiefly in summer, and presenting the appearance of heaps of snow."

Stratus—"Is an extended horizontal layer of cloud, increasing from below, and appearing at times, about sunset, of extraordinary brilliancy."

Nimbus, or Rain cloud.

SECONDARY, OR COMPOUND CLOUDS.

Cirro-cumulus—"Forms the transition from *Cirrus* to *Cumulus*, and constitutes the aggregation of small round white clouds, resembling sheep in a meadow."

Cirro-stratus—"Consists of *Cirrus* combined in horizontal or slightly inclined layers of considerable extent."

Cumulo-stratus—"Often gives to the horizon a bluish-black color, frequently seen in great perfection toward night of dry and windy winter weather."

"The sheep-like *Cirro-cumulus*, when verging closely on *Cirrus*, generally precedes clear mornings and evenings, and are mostly indicative of continued good weather."

"The *Cumuli* are most abundantly seen in the horizon, and are of dazzling whiteness on their border and dark in the middle. The appearance is frequently not unlike a snow-covered mountain. The *Stratus* is often nothing more than a layer of fog or mist, and occurs at all heights, frequently of great extent. *Cirro-stratus* occurs in various forms and colors; being generally seen in the morning and evening, and giving rise to the beautiful redness of the sky. According to Howard, that haze covering an otherwise clear sky as with a veil, and more frequently the forerunner of bad weather, belongs to this class. The thick rain threatening clouds arising from the combination and expansion of *Cumulus* belong to the *Cumulo-stratus*."

"It is estimated that *Cumulus* sweeps along at a height of between 3,000 and 10,000 feet; *Cirrus* at between 10,000 and 24,000 feet; thunder-cloud at between 1,500 and 5,000 feet."

"Clouds of very different character are often brought into contact by aerial currents or changes in the density of the atmosphere."

"Clouds under different illuminations present very different appearances."

"About sunset, diverging shadows of great beauty are often seen among clouds in the West. If these shadows are long enough to pass the zenith, they will converge to a point in the Eastern sky opposite to the sun. The opposite phenomenon takes place at sunrise."

SYMBOLS *to be used in recording the* STATE OF THE SEA *in the proper column.*

B.—Broken or irregular sea.
C.—Chopping, short, or cross sea.
G.—Ground-swell.
H.—Heavy sea.
L.—Long rolling sea.
M.—Moderate sea or swell.
R.—Rough sea.
S.—Smooth sea.
T.—Tide-rips.

Astronomical signs to be used in recording Observations for Latitude, Longitude, and Variation of the Compass.

Altitude of the Sun ⊙
Altitude of the Moon ☽
Altitude of a Star *
Altitude of a Polar Star P*
Double Altitudes ♎ or DA
Equal Altitudes EA
Lunar Distance ⊙ ☾ or ☽ *
Variation of the Compass, W. or E. after ⊙ or *

SYNOPSIS.

Showing the entries that are to be made in the Log Book.

1. All General Orders issued by the Deparment.
2. All accidents resulting in loss of any kind.
3. All occurrences of importance and interest.
4. All transfers.
5. All deaths.
6. All desertions.
7. All prisoners by an enemy.
8. All persons absent without leave.
9. All dangers discovered in navigation.
10. All marks of packages deficient in quantity.
11. All deficiencies of those packages.
12. All alterations in the rations, &c.
13. A particular account of all stores received.
14. A particular account of all stores condemned by survey, &c.
15. A particular account of all stores lost or sent away, &c.
16. The distances run by log.
17. The courses steered.
18. The direction of the wind.
19. The force of the wind.
20. The leeway made in points and fractions of points of the Compass.
21. The meteorological observations and state of the weather.
22. All sudden changes of temperature of the air and water.
23. All sudden or rapid depressions or risings of the barometer, and all extraordinary oscillations of it.
24. All peculiar or extraordinary appearances of the sea, atmosphere, or heavens, preceding or following sudden changes of wind, heavy squalls of wind, or of heavy gales.
25. All flying clouds and scud, noting the directions they come from; and if two strata, showing upper and lower currents of wind blowing in different directions, note the fact; describe the peculiarities of both as regards appearances and rapidity of movements, and give the directions from which both come, indicating them by upper and lower strata.
26. The state of the sea.
27. The sail set during and carried at the end of each watch.
28. The position of the ship by D. R., and by observations as often as found.
29. The set and strength of the current for each hour, and for the whole 24 hours.
30. The variation of the compass, the time it was observed, and the means by which it was determined.
31. The quantity of water expended, received, or distilled during the preceding 24 hours.
32. The quantity of water remaining on hand suitable for use at the end of each 24 hours.
33. The quantity of coal consumed during, and the quantity remaining on hand at the end of, each 24 hours.
34. The time when any particular evolution, exercise, or other service was performed, (making and shortening sail, receiving a pilot, preparing to enter port, or to anchor, anchorage, depth of water, bearings, &c.; getting under way, discharging pilot, securing anchors, securing battery, preparing ship for sea, and the like.)
35. The name, rank, or rating of all persons who may join or be discharged from the vessel.
36. The names of all passengers, with the time of coming on board or of leaving.
37. All signals made, with the name of the vessel to and by.
38. A full account of all public punishments.
39. The rating and disrating of all petty officers.
40. The grounding of the ship, with all the attendant circumstances.
41. The loss or serious injury of all boats, spars, sails, rigging, and stores of any kind, with the attendant circumstances.
42. A full account of all hired vessels, embracing dimensions, description, tonnage, crew, name of master or owner, rate of charter, duty to perform, &c.
43. The ship's draught, light and loaded, as furnished at the Navy Yard.
44. The ship's draught on arriving in and immediately after leaving port.
45. The plans of the ship and draught of the holds, showing stowage, &c.
46. The expenditure of all ordnance stores in battle, for exercise, saluting, &c.
47. The behavior of the vessel under different circumstances of weather and sea, such as pitching, rolling, weatherly qualities, &c.
48. All casts of the lead for deep-sea soundings.
49. All soundings; and when casts are made with the deep-sea lead without finding bottom, the number of fathoms paid out up and down is to be noted, with the remark *no bottom*.
50. The character of the bottom as ascertained by soundings.
51. The correct bearings of all land, lights, sails, and other objects in sight at the end of each watch.
52. The bearing and distance of the object for a departure on leaving port.
53. All unusual appearance of the sea, tide-rips, discolored water, extraordinary luminousness of the sea, strange birds, fishes, icebergs, driftwood, seaweed, &c.
54. All unusual meteorological phenomena, extraordinary refractions, water spouts, meteors, shooting stars, auroras, halos, fata morganas, iceblinks, corposantos, &c.
55. After anchoring in unfrequented ports, roadsteads, or on strange coasts, the bearings of all prominent objects on shore, adjacent points, islands, rocks, or dangers, and the depth of the water within the distance required for working ship.
56. At sea, all strange sails reported from aloft, seen from deck, and those spoken.
57. In fleet or squadron at sea, the bearing and distance of the Commander-in-chief, and all the vessels of the squadron, at the end of each watch.
58. In convoying, the position of the convoy at the end of each watch.

59. After an action, a full detailed account of every occurrence and remarkable incident, all damage to hull, rigging, and machinery, all killed and wounded, &c.
60. When at anchor, the times of the changes of the tides and their comparative or actual strength by measurement, commencement of flood and ebb, the time of slack-water, and the time the vessel swings to her anchor upon a change of tide.
61. When moored, the condition of the hawse at the end of each watch.
62. The time of the rising and setting of the moon.
63. When at anchor in heavy weather, the strain upon the cables, &c.

MODES OF EXPRESSION

To be employed as a general rule in recording the ordinary characteristics of Atmosphere, the appearance of the Heavens, the force of the Winds, the state of the Weather, and the condition of the Sea.

WEATHER—ATMOSPHERE.

Clear and calm weather.
Clear weather.
Clear and cold weather.
Clear and pleasant weather.
Clear and warm weather.
Clear and hot weather.
Clear and bright moonlight.
Clear and bright starlight.
Cloudy weather.
Cloudy and dark or gloomy weather.
Cloudy and dark night.
Cloudy, with a few stars.
Cloudy, with moon obscured.
Cloudy, with sun obscured.
Cloudy, with the sun occasionally visible.
Cloudy near the horizon to the ——
Cloudy to windward.
Cloudy to leeward.
Thick weather.
Rain cloud to the ——
Storm cloud to the ——
Cloudy to the ——
Cloudy to seaward.
Cloudy over the land.
Cold freezing weather.
Cold rainy weather.
Cold snowy weather.
Damp weather.
Halo around the moon.
Hazy weather.
Hot weather.
Heavy dews.
Light dews.
Passing clouds from the ——
Passing scud to the ——
Pleasant weather.
Stormy weather.
Sultry weather.
Squally weather.
Squally appearances.
Frequent showers of rain.
Light rain.
Light drizzling rain.
Squall clouds rising to the——
Heavy thunder.
Thunder-cloud rising to the ——
Trade-wind clouds to the ——
Lightning to the ——
Vivid lightning to the ——
Thunder and lightning.
Starlight night.
Moonlight night.
Rain, (continuous.)
Rain and hail.
Rain and sleet.
Rainy weather.
Light showers of rain.
Light steady rain.
Rain squall.
Rain and wind.
Snowy weather.
Light snow.
Moderate snow.
Heavy snow.
Dense fog.
Light fog.
Fog and rain.
Hail storm.
Hail and rain.

WINDS.

Calm.
Fresh breeze.
Fresh gales.
Heavy gale.
Heavy squall.
Hurricane.
Light airs.
Light baffling wind.
Light steady breeze.
Light variable breeze.
Light squall.
Moderate breezes.
Moderate gales.
Squally weather.
Strong gale.
Steady breeze.
Tornado.
Variable winds.
Wind currents.

STATE OF THE SEA.

Cross sea.
Discolorod water.
Heavy sea.
Heavy swell from the ——
Heavy ground-swell.
Heavy rolling sea.
Heavy following sea.
Light ground-swell.
Light following sea.
Light swell from the ——
Luminous or phosphorescent sea.
Rough sea.
Short chopping sea.
Smooth sea.
Tide-rips.

MOTIONS OF THE VESSEL.

Pitching deeply and heavily.
Pitching moderately.
Pitching badly.
Pitching easily.
Rolling easily.
Rolling deeply.
Rolling heavily.
Rolling quickly.
Laboring greatly.

LIST OF OFFICERS

Attached to and on board of the U. S. S. Essex 3d Rate, commanded by Commander T. F. Jewell, U. S. N., during the period covered by this Log-Book, from June 21st, 1886, to December 31st, 1886.

NAME.	RANK.	NAME.	RANK.
T. F. Jewell	Commander		
J. A. Bicknell	Lieut.-Comdr		
A. S. Wadhams	Lieutenant		
C. S. Galloway	Lieutenant		
H. C. Goaring	Lieutenant		
B. T. Walling	Lieutenant		
C. C. Rogers	Lieutenant		
A. F. Fechteler	Ensign		
Hugh Rodman	Ensign		
H. C. Poundstone	Ensign		
J. J. Blandin	Ensign		
F. J. Lopuis	Ensign		
W. B. Loggett	Ensign		
J. A. Hawke	Surgeon		
J. W. Stivers	Fleet Engineer		
H. R. Smith	P. Asst. Paymr		
J. K. Barton	P. Asst. Engr		
D. C. Redgrave	Cadet Engr		
Solon Arnold	Cadet Engr		
R. S. Wainwright	1st Lieut. U. S. M. C.		
L. R. Vinton	Pay Clerk		

Examined and found to be correct.

A. V. Wadhams. Lieut U.S. Navigator.

LIST OF OFFICERS

Who have died, been detached, or transferred, on board the U. S. S. "Essex" 3d Rate commanded by Commander T. T. Jewett, U. S. N., during the period covered by this Log-Book, from June 21st, 1886, to December 31st, 1886.

NAME.	RANK.	TIME OF OCCURRENCE AND PARTICULARS.
J. J. Blandin	Ensign	July 15th to U. S. S. "Swatara"
C. C. Rogers	Lieutenant	Aug 25 D.D.
L. R. Tibbitts	Pay Clerk	Oct 9th Resigned

Examined and found to be correct.

A. V. Wadhams Lieut V Navigator.

COMPLEMENT of Petty Officers, Seamen, Ordinary Seamen, Landsmen, Boys, and Marines on board of the U. S. S. "Essex" 3d Rate at first commissioning June 21st 1856.

NUMBER ALLOWED.	RATES.	NUMBER ON BOARD.
1	Chief Boatswain's Mate,	1
2	Boatswain's Mate,	2
	Seamen Gunners,	
1	Chief Gunner's Mate,	1
	Gunner's Mates,	
1	Chief Quartermaster,	1
3	Quartermasters,	3
3	Coxswains,	3
2	Captains of Forecastle,	2
4	Captains of Tops,	4
2	Captains of Afterguard,	2
3	Quarter-Gunners,	3
1	Carpenter's Mates,	1
1	Sailmaker's Mates,	1
1	Armorer,	1
1	Captains of Hold,	1
1	Ship's Cook,	1
1	Ship's Corporals,	1
1	Lamp-lighter,	1
2	Carpenters and Calkers,	2
1	Baymen,	1
1	Master-at-Arms,	1
1	Apothecary,	1
1	Ship's Yeoman,	1
1	Paymaster's Yeoman,	1
1	Engineer's Yeoman,	1
1	Schoolmaster,	1
1	Ship's Writer,	1
1	Ship's Tailor,	1
1	Ship's Barber,	1
1	Painter,	1
1	Bugler,	1
1	Jack of the Dust,	1
1	Blacksmith,	1

NUMBER ALLOWED.	RATES.	NUMBER ON BOARD.
1	Cabin Steward,	1
1	Cabin Cook,	1
1	Ward-room Steward,	1
1	Ward-room Cook,	1
1	Steerage Stewards,	1
1	Steerage Cooks,	1
	Warrant Officer's Steward,	
	Warrant Officer's Cook,	
8	Seamen,	8
	Ordinary Seamen,	
16	Landsmen,	16
	Boys,	
40	Apprentices,	63
2	Machinists,	2
1	Boiler Makers,	1
3	Water Tenders,	3
3	Oilers,	3
1	First-class Firemen,	1
6	Second-class Firemen,	6
12	Coal Heavers,	12
	TOTAL,	166

ADDITIONAL FOR FLAGSHIP.

Master of the Band,	
Chief Musician,	
First-class Musicians,	
Second-class Musicians,	
Printer,	
Steward to Commander-in-chief,	
Cook to	do.
Coxswain to	do.
Seamen to	do.
Ordinary Seamen to	do.
Landsmen to	do.

Examined and found to be correct.

A. V. Wadhams Lieut & Navigator.

U. S. S. Essex 3d Rate

Description of Instruments used for Meteorological Observations, their Location, &c.

INSTRUMENT.	MAKER.	NUMBER.	LOCATION.	DATE OF LAST COMPARISON.	COMPARED WITH—	ERROR.
MERCURIAL BAROMETER.	Jas Green New York	1496	Capt's Office Asst Surg	August 30th 1886	Navigators Dept Brooklyn Navy Yard	Broken Sept 29th
ANEROID BAROMETER.		(P H P G N)	Cabin Bulkhead			
THERMOMETER, (Dry Bulb.)	J & H. J. Green	1520	Higgin Mast Under Poop Deck	March 1885	Signal Office Washington	-18° to +112° -0°.3 to +0°.1
THERMOMETER, (Wet Bulb.) (Psychrometer.)	J & H. J. Green	1534	Higgin Mast Under Poop Deck	March 1885	Signal Office Washington	-18° to 112° -0°.6 to +0°.1

Examined and found to be correct.

Navigator.

ARMAMENT

Of the U. S. S. "Essex" 3rd Rate

PRIMARY.

NO. OF GUNS.	CAL.	MARK.	DESCRIPTION.	CARTRIDGE. POWDER.	CARTRIDGE. WEIGHT.	PROJECTILES. KIND.	PROJECTILES. WEIGHT.	CARRIAGES.	REMARKS.
36	9"	C & C	Smooth Bore	Gunn	10 & 12	Shot	90	4	Broadside
365	9"	do	do	do	lbs	Shell	73.5	18	do
366	9"	do	do	do		Canister	70.	52	do
368	9"	do	do	do		Grape	74.	94	do
15	8"	B. F.	Giaurtis Rifle	Hazard	25	Bolton	168	31	Iron Pivot
	60 Pdr		do	Rifle	6	Parrott	60		Steering Bar

SECONDARY.

14	.45	Gatling

BOAT ARMAMENT.

12 Pdr Light S. B. Dahlgren
3" B. L. R.

SMALL ARMS.

25	Hotchkiss Repeating Rifles cal	.45
25	Colts Revolvers "	.38
20	Cutlasses.	

Examined and found to be correct.

A. T. Harrison Lieut & Navigator.

TABLES of Deviation of the Standard Compass No. 68 on board the U. S. S. "Essex"

DATE:	Sept 2d 1886	Oct 11th 1886	Nov 7th 1886	Nov 22d 1886	Dec 15th 1886	
PLACE OF OBSERVATION:	at Sea	at Sea	at Sea	at Sea	at Sea	
LATITUDE:	N 40° 24'	N 37° 40'	N 16° 40'	N 9° 24'	N 5° 05'	
LONGITUDE:	E 43° 55'	E 2° 04'	E 40° 49' 30"	E 59° 42'	E 98° 24'	
OBSERVED VARIATION:	W 7° 26'	W 14° 34'	W 3° 20'	W 0° 41'	E 1° 35'	

SHIP'S HEAD BY COMPASS.	DEVIATION.	DEVIATION.	DEVIATION.	DEVIATION.	DEVIATION.	DEVIATION.
NORTH.	E 1°35'	E 1°42'	E 0°45	E 0°35	E 1°04	
N. by E.	E 2°35	E 1°54				
N. N. E.	E 4°12	E 2°20		E 2°00		
N. E. by N.	E 5°35	E 3°00				
N. E.	E 4°43	E 3°28	E 2°15	E 2°34	W 0°10	
N. E. by E.	E 4°44	E 3°04				
E. N. E.	E 5°19	E 3°08		E 2°20		
E. by N.		E 3°29				
EAST.		E 1°16	E °56	E 0°43	°0	
E. by S.	E 2°44	E 1°04				
E. S. E.	E 2°10	E 0°34		W 0°02		
S. E. by E.	E 1°40	E 0°08				
S. E.	E 0°34	W 1°10	W 1°02	W 0°48	W 1°21	
S. E. by S.	W 0°26	W 0°44				
S. S. E.	W 1°06	W 1°04		W 1°41		
S. by E.	W 1°26	W 1°25				
SOUTH.	W 2°19	W 1°34	W 1°12	W 1°42	W 0°56	
S. by W.	W 2°24	W 1°22				
S. S. W.	W 2°38	W 1°25		W 1°32		
S. W. by S.	W 2°48	W 1°39				
S. W.	W 3°19	W 1°42	W 0°25	W 0°48	E 0°14	
S. W. by W.	W 3°58	W 1°45				
W. S. W.	W 3°40	W 1°40		W 1°06		
W. by S.	W 3°50	W 1°55				
WEST.	W 4°16	W 1°44	W 0°30	W 0°48	W 0°20	
W. by N.		W 1°54				
W. N. W.	W 3°38	W 1°55		W 0°05		
N. W. by W.	W 3°28	W 1°51				
N. W.	W 2°24	W 1°01	W 0°45	W 1°06	W 0°24	
N. W. by N.	W 1°35	W 0°44				
N. N. W.	W 1°21	W 0°32		E 0°42		
N. by W.	E 0°44	E 0°32				

Examined and found to be correct.

A. P. Mahan. Navigator.
Lieutenant, U. S. Navy.

LOG of the UNITED STATES Steamer "Essex", 30 Rate,

Navy Yard, Brooklyn New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
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Noon.																	

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ′ ″
- Longitude by D. R. ° ′ ″
- Latitude by observations of ⊙ ° ′ ″
- Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Position at 8 P. M.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, tons lbs.

Coal remaining on hand at Noon, " "

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under the command of Commander T. F. Jewell, U. S. Navy,
Monday June 21st, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

At 11 o'clock, W. A. Kirkland U. S. N. Captain of the yard, put in command and turned over command to Commander T. F. Jewell U. S. N. Commander T. F. Jewell then read to the presence of the officers and available men his orders to command the U. S. S. "Essex". The following officers reported for duty to this vessel Commander T. F. Jewell, Lieut. Geo. A. Bicknell, Chief Engr. G. W. Stivers and P. A. Paymaster C. R. Smith. and R. S. Wainwright Lieut U. S. N. C.

G. A. Bicknell
Lieut U. S. N.

Morns Declaration 8 2/10 Fine Morn

Examined and found to be correct.

Navigator.

LOG of the UNITED STATES "Ft. Essex", 30 Rate,

Navy Yard, Brooklyn, New York

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky; in 10ths.	State of the Sea.
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Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ′ ″
- Longitude by D. R. ° ′ ″
- Latitude by observations of ⊙ ° ′ ″
- Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Position at 8 P. M.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, tons lbs.

Coal remaining on hand at Noon, " "

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under the command of Commander T. F. Jewell , U. S. Navy,

Tuesday June 22d , 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Navy Yard workmen at work on ship, painting Engine room and shifting block deck, Joiners at work putting up torpedo wires &c. A working party of six men came on board from Receiving ship "Vermont" at 1 and returned at 3.30. Recived from U.S.R.S. "Vermont" M. Duke Seaman Lav, & M. J. O'Brien Lav, with all necessary papers &c.

Geo. A. Bicknell
Lieut. U.S.N.

Noons Declination S 23° 16' Full Moon.

Examined and found to be correct.

Navigator.

LOG of the UNITED STATES Steamer "Essex", 30 Rate,

Navy Yard, Brooklyn New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
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Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ′ ″
- Longitude by D. R. ° ′ ″
- Latitude by observations of ⊙ ° ′ ″
- Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Position at 8 P. M.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, tons lbs.

Coal remaining on hand at Noon, " "

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under the command of Commander T. F. Jewell, U. S. Navy,

Wednesday June 23d, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Have had workmen at work on ship painting & plumbing.
A party of 9 men & 1 Officer from Receiving Ship "Vermont" on board.

Lt. Dickens
1st Asst. E. N.

Noons Declination S. 23° 1.2' Time Noon

Examined and found to be correct.

Lieut and Navigator.

LOG of the UNITED STATES "Ft. Essex", 30 Rate,

Navy Yard, Brooklyn, New York

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky; in 10ths.	State of the Sea.
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Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ′ ″
- Longitude by D. R. ° ′ ″
- Latitude by observations of ⊙ ° ′ ″
- Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Position at 8 P. M.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, tons lbs.

Coal remaining on hand at Noon, " "

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under the command of Commander T. F. Powell, U. S. Navy,

Thursday June 24th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Navy Yard workmen at work on ship. A party of ship keepers from Receiving Ship "Vermont" on board.

G. A. Bickpell
Lieut. U. S. N.

Noon's Declination N 0° 15' Last Quarter.

Examined and found to be correct.

Lieut. and Navigator.

LOG of the UNITED STATES Steamer "Essex", 30 Rate,

Navy Yard, Brooklyn New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
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Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ′ ″
- Longitude by D. R. ° ′ ″
- Latitude by observations of ⊙ ° ′ ″
- Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Position at 8 P. M.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

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Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, tons lbs.

Coal remaining on hand at Noon, " "

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under the command of Commander T. F. Jewell, U. S. Navy,

Friday June 25th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Navy Yard workmen on board. Engaged in painting. Joiners at work on Torpedo apparatus. Rounded up chain. A party of ship Keepers on board from Receiving Ship "Vermont" engaged at general work and cleaning up ship.

G. A. Bickwell
Asst. Surg. U. S. N.

Noon's Declination N 1° 16' Last Quarter.

Examined and found to be correct.

Navigator.

LOG of the UNITED STATES "Ft. Essex", 30 Rate,

Navy Yard, Brooklyn, New York

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky; in 10ths.	State of the Sea.
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Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ′ ″
- Longitude by D. R. ° ′ ″
- Latitude by observations of ⊙ ° ′ ″
- Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Position at 8 P. M.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, tons lbs.

Coal remaining on hand at Noon, " "

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under the command of Commander T. F. Jewell, U. S. Navy,

Saturday June 26th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Navy Yard workmen on board. Joiners at work on ship. Transferred steel anchor to Navy Yard. A party of ship Lupins at work from Receiving ship "Vermont."

G. A. Bacheller
Lieut. U. S. N.

Hours Declination N 1° 49' Last Quarter.

Examined and found to be correct.

Navigator.

LOG of the UNITED STATES Steamer "Essex", 30 Rate,

Navy Yard, Brooklyn New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
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Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ′ ″
- Longitude by D. R. ° ′ ″
- Latitude by observations of ⊙ ° ′ ″
- Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Position at 8 P. M.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

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Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

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Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, tons lbs.

Coal remaining on hand at Noon, " "

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under the command of Commander T. F. Jewell, U. S. Navy,

Sunday June 27th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

A party of ship keepers from the U. S. R. S. "Vermont" on board.

G. N. Brackett
Asst. Eng. U. S. N.

Arms & ammunition 12 "39" Rack Lanyards —

Examined and found to be correct.

Navigator.

LOG of the UNITED STATES "Ft. Essex", 30 Rate,

Navy Yard, Brooklyn, New York

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky; in 10ths.	State of the Sea.
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Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ′ ″
- Longitude by D. R. ° ′ ″
- Latitude by observations of ⊙ ° ′ ″
- Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Position at 8 P. M.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, tons lbs.

Coal remaining on hand at Noon, " "

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under the command of Commander T. F. Jewett, U. S. Navy,

Monday June 28th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Workmen from Equipment & Recruiting Construction & Repair & Navigation Departments at work on board. Receiving Paymasters Stores. Received from U. S. R. S. "Vermont" with all necessary papers Taki Kichi Ldg. A working party from the "Vermont" on board.

G. A. Bicknell
Lieut U. S. N.

Noons Declination N 3° 32' Each Quarter.

Examined and found to be correct.

Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 30 Rate,

Navy Yard, Brooklyn New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
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Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ′ ″
- Longitude by D. R. ° ′ ″
- Latitude by observations of ⊙ ° ′ ″
- Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Position at 8 P. M.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, tons lbs.

Coal remaining on hand at Noon, " "

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under the command of Commander T. F. Jewell, U. S. Navy,

Tuesday June 29th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Receiving Paymaster stores. Working men from Navy Yard on board. Working party from the "Vermont" on board. Received from the U. S. R. S. "Vermont" with all necessary papers the following named men viz. S. Mateno, H. Esco, M. K. Mouka wa, Tam Suzuka, G. C. Keating, C. Dunne, Jno McCann & F. Rohner.

G. H. Baskell
Asst. Surgn. U. S. N.

Hour's Declination No 4° 2 8' First Quarter.

Examined and found to be correct.

Navigator.

LOG of the UNITED STATES "Ft. Essex", 30 Rate,

Navy Yard, Brooklyn, New York

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky; in 10ths.	State of the Sea.
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Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ′ ″
- Longitude by D. R. ° ′ ″
- Latitude by observations of ⊙ ° ′ ″
- Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Position at 8 P. M.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, tons lbs.

Coal remaining on hand at Noon, " "

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under the command of Commander T. F. Jewell, U. S. Navy,

Wednesday June 30th, 1880.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Working party from the U. S. R. S. "Vermont" on board. Workmen from yard on board. Receiving ships stores.

G. F. Bicknell
Lieut. U. S. N.

Hirn's Declination No 2nd Last Quarter.

Examined and found to be correct.

Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 30 Rate,

Navy Yard, Brooklyn New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
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Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ′ ″
- Longitude by D. R. ° ′ ″
- Latitude by observations of ⊙ ° ′ ″
- Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Position at 8 P. M.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, tons lbs.

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under the command of Commander T. F. Jewell, U. S. Navy,

Thursday July 1st, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Receiving stores. Workmen from Navy Yard, on board this A.M. Received from the U.S.R.S. "Vermont" with all necessary papers &c. the following named men: Chas Anderson Sea, T. Broderick Sea, Wm Branagan C. Mar, Geo Cope Jr. Gr, Jno Chance Sea, Alex Campbell Sea, C. Campbell Sea, and Charles Lee, Thos Graves Mchit, Herbert St. E. Gunner 1st C.F., John H. Costain 2d C.F. Alex Donaldson C. Mar, R. Doyle C. Mar, Thos Denton Sea, W. J. Lazzy 1st C.F., L. F. Lewis Lee, John Evans Sea, Wm B. Emmerson Lee, Hy Evelyn Lee, Barney Fountain Sea, Jas Farrin Sea, H. Falck Sea, Jno Fernandez Sea, Jos Criss Lee, Julius Grunstad Sea, Nicholas Gilroy C. Mar, Wm Howard Sea, Gustav Holm Sea, Jno Hackett Sea, Jno Hadem 2d C.F., Louis Holt C. Mar, Saml E. Hendrick 1st C.F., Christopher Harr C. Master, Nicholas Lear Sea, C. O. Landman Ord. Sea, Victor Lapoint C. Mar, Wm F. Morgan C. M., Jno Morvan Lee, C. McMahon Sea, Mike McElhone C. Mar, Jno McAree W. Pidder, J. M. McHack 1. C. F., Jas Maguire 2d C.F., Pete McDonough C. Mar, Jas McNichol C. Mar, Jos Nobriga Lee, P. Quinn Sea, Jos Oneill Lee, Thos E. Passmore 2d C.F., Jas T. Porter C. Mar, M. C. Reilly 1st C.F., Jno Rogers 2d C.F., C. Sorensen C. Mar, Saml Shelton Sea, Jno Somerville Sea, Wm Smith Sea, H. Schrougen Sea, Frank Smith Lee, Wm Thompson Sea, Chas Trotter Lee, C. Tradiveen 2d C.F., L. Wisbogel Ord., Saml Williams Sea, F. Wallace Sea, John Weiss Sea, John Williams Sea. The following officers reports for duty to this vessel, Lieut A. V. Wadhams, Ensigns A. F. Fechteler, J. J. Blandin and H. Rodman, P.A. Engr J. K. Barton, Surgeon J. A. Hawke U.S.N. and Lieut R. L. Wainwright U.S.M.C.

G. C. Blakely
Lieutenant U.S.N.

Noons Declination N 6° 28' New Moon

Examined and found to be correct.

A. V. Wadhams.
Lieut

Navigator.

LOG of the UNITED STATES "Ft. Essex", 30 Rate,

Navy Yard, Brooklyn, New York

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky; in 10ths.	State of the Sea.
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Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ′ ″
- Longitude by D. R. ° ′ ″
- Latitude by observations of ⊙ ° ′ ″
- Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Position at 8 P. M.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, tons lbs.

Coal remaining on hand at Noon, " "

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under the command of Commander T. F. Jewett, U. S. Navy,
Friday July 2d, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Midnight to 8 A. M.
Clear and Pleasant.

A. F. Scudder
Ensign U. S. N.

From 8 A. M. to 8 P. M.
Overcast and Cloudy. Receiving stores on board. Hauled crew at 5 A.M. and found Jno Haden, T. E. Passmore 2d C. F. and J. McGrath 1st C. F. absent, overstaying leave. Jno Haden and T. E. Passmore 2d C. F. returned to this ship at 4 P. M.

A. F. Scudder
Ensign U. S. N.

From 8 P. M. to Midnight
Clear and Pleasant. Light breeze. Received fresh provisions for crew. J. H. Captain and T. E. Passmore 2d C. F. were delivered on board by Marine Officer of the Yard, they having been locked up during the night.

J. J. Blandin
Ensign U. S. N.

Noon Declination N 4° 30' Red Moon.

Examined and found to be correct.

A. V. Williams.
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 30 Rate,

Navy Yard, Brooklyn New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
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Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ′ ″
- Longitude by D. R. ° ′ ″
- Latitude by observations of ⊙ ° ′ ″
- Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Position at 8 P. M.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, tons lbs.

Coal remaining on hand at Noon, " "

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under the command of Commander T. F. Jewell, U. S. Navy,

Saturday July 3d, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From 8 A. M. to Midnight-

Generally clear and warm. Wind generally in light breezes from the Westward. Crew engaged in taking in stores. Sent liberty party in shore. Private Boville U. S. M. C. was absent from muster at evening muster. Received in pay department 846 lbs fresh beef, 86 lbs vegetables and 69 lbs of fresh bread.

Thos R Rodman
Ensign U. S. N.

Morris Zeckariah N 8° 2' West Mean

Examined and found to be correct.

A. W. Graham.
Lieut and Navigator.

LOG of the UNITED STATES "Ft. Essex", 30 Rate,

Navy Yard, Brooklyn, New York

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky; in 10ths.	State of the Sea.
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Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ′ ″
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Position at 8 a. m.
- Latitude by ° ′ ″
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Position at 8 P. M.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, tons lbs.

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under the command of Commander T. F. Jewell, U. S. Navy,

Sunday July 4th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From 8 A. M. to Midnight.

Clear & warm. Received in Pay. Sept 4 lbs fresh beef, 4 lbs vegetables 69 lbs fresh bread. J. Fernandez Sea, was brought on board by Corporal of Guard from gate, having been arrested there at 11 P. M. the night before for being drunk and disorderly. Commanding officer inspected ship and crew at 10. A. M. By direction of Commanding officer placed Thos. E. Passmore 2d C. F. under extra charge for being under the influence of liquor. At 7.30 mustered crew and found the following men absent without leave. Lapmt C. Hoy, J. M. McGrath 1st C. F., F. Wallace Sea, M. McClelland C. Hoy & Wm Neville P. M.

A. F. Scheiber

Ensign U. S. N.

Moons Declination N 10° 30' West Horn

Examined and found to be correct.

C. F. Pond

First Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 30 Rate,

Navy Yard, Brooklyn New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
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Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ′ ″
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- Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Position at 8 P. M.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

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Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, gallons.

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Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, tons lbs.

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under the command of Commander T. F. Jewett, U. S. Navy,

Monday July 5th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From 8 A. M. to Midnight

Weather warm and clear, foggy during evening. Light breez, generally from W.ly. Hoisted colors at each mast head in honor of the anniversary of independence. Saluting battery on dock fired 21 guns at noon. A large number of Brazilian officers with band and drum corps paid their respects to the Commandant of the yard. Found following men absent without leave from evening quarters, V. Lapoint C.H., J. M. McGrath, C. F. F. Wallace Sea, N. McC. Elbrne C. Ho, J. Boiles P.M.A. H. Albers P.M. The following men returned to the ship under the influence of liquor and were placed under the sentry's charge, Thos Denton Sea, H. Schrunger Sea and Geo Hope Sr. Gr. Received in Pay. Dept 86 lbs fresh beef, 86 lbs vegetables and 69 lbs of fresh bread.

Hugh Rodman
Ensign U. S. N.

Noons Declination N 11° 26' Red Mon.

Examined and found to be correct.

T. F. Jewett
Lieut and Navigator.

LOG of the UNITED STATES "Ft. Essex", 30 Rate,

Navy Yard, Brooklyn, New York

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky; in 10ths.	State of the Sea.
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Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
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Position at 8 a. m.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Position at 8 P. M.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

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Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, tons lbs.

Coal remaining on hand at Noon, " "

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under the command of Commander T. F. Jewell, U. S. Navy,

Tuesday July 6th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From 8 A.M. to Midnight

Clear and warm. Received on board Medical outfit. At 7 P.M. mustered crew and found H. McElhone C. Hy. absent without leave. F. Denham sea was restored to duty by order of the Duty Officer. Jas. Maguire 2d C. F. returned from leave 8 hours, overtime.

A. A. Seabrooke

Ensign U. S. N.

Morris Declaration Nat'y Neut Mon

Examined and found to be correct.

D. V. Williams.
1st Asst

Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Navy Yard, Brooklyn New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
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Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ′ ″
- Longitude by D. R. ° ′ ″
- Latitude by observations of ⊙ ° ′ ″
- Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Position at 8 P. M.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, gallons.

Water Received on board during the preceding 24 hours, 3000 "

Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, tons lbs.

Coal remaining on hand at Noon, " "

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under the command of Commander T. F. Jewell, U. S. Navy,

Wednesday July 7th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From 8 A. M. to Midnight

Clear and very warm. Light breeze from SE. Received stores in Equipment, Medical and Navigation Departments; including cordage, canvas, spinning jenny, turning in machine, tar, coal tar, turnings, gun tackles, charts, nautical books &c. Navy Yard hands fitting ship for sea. Found the following men absent-without-leave J. McKrack I.C.F., H. McElhone O. Hr, J. Neville P.M., N. Lear B.M., S. E. Kendrick I.C.F. returned, on board 36 hours overtime and were placed under sentry's charge by order of the Ord'y officer. Received in Pay. Dept-8 lbs fresh bread, 8 lbs Vegetables, 68 lbs fresh beef. Received on board the Provisions and Clothing Dept-3000 gals fresh water.

Hugh Rodman
Ensign U. S. N.

Noon Declination N 22° 9' New Moon

Examined and found to be correct.

A. V. Wadhams
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 30 Rate,

Navy Yard, Brooklyn New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
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Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ′ ″
- Longitude by D. R. ° ′ ″
- Latitude by observations of ⊙ ° ′ ″
- Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Position at 8 P. M.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, tons lbs.

Coal remaining on hand at Noon, " "

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under the command of Commander T. F. Jewett, U. S. Navy,

Thursday July 8th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From 8. A.M. to Midnight

Warm. Lieut. H. C. Waring 2nd C. C. Rogers U. S. N. reported on board for duty. Receiving Stores on board. D.

C. F. Preston
Ensign U. S. N.

Noon Decln. akin S 4° 9' First Quarter.

Examined and found to be correct.

D. W. Adams
Lieut 2nd Navigator.

LOG of the UNITED STATES "Ft. Essex", 30 Rate,

Navy Yard, Brooklyn, New York

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky; in 10ths.	State of the Sea.
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Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ′ ″
- Longitude by D. R. ° ′ ″
- Latitude by observations of ⊙ ° ′ ″
- Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Position at 8 P. M.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, tons lbs.

Coal remaining on hand at Noon, " "

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under the command of Commander T. F. Jewell, U. S. Navy,

Friday July 9th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From Meridian to 4 A.M.

Clear and pleasant. Light breezes from N.E. and E. Hustled crew and found the following men absent without leave M. Lear B.M., J. McGrath 1c F., M. McElhone C/Ster and J. Bands Corp. U.S.M.C.

Hugh Rodman
Ensign U.S.N.

From 8 A.M. to Meridian

Clear and pleasant. Light breezes from N.E. and E. Received in Ordnance department the following stores, 12 boarding spikes, 1 set gun lashings 8in M.L.R. and 60 bar, 2 dismounting bars 4 breechings for broadside guns. Tested torpedo wires and connections and found them to be in working order. Received in Equipt Dep't following stores: 31 chain hooks, 2 devils claws, 2 anchor buoys 2 kedge buoys, 1 clear hawse pendant, 1 clear hawse rope 6 boat anchors, 5 boat anchor chains, 6 hand grapnels, 12 chain pumches, 24 chain pins, 12 cold chisels 6 spare shackles, 1 mooring swivel, 1 fish hook, 24 hickory pins, 21 gripes for launches, 5 sets boat gripes, 4 buoy ropes, 6 sets of rigging for boats, 2 sets wheel ropes, 36 deck swabs, six hand swabs, 1 set of hammock clothes and hoods, 8 boat sails, 150 hammock lashings, 2 relieving tackles, 16 boat stoppers 3 hatch whips, 30 iron hanks. Also stores in Engineers Dep't. Seven engaged in getting stores on board. Navy Yard hands fitting ship for sea.

Hugh Rodman
Ensign U.S.N.

From Meridian to 4 P.M.

Warm and pleasant weather. Gentle breezes from N.E. and N.W. Workmen from Navy Yard at work in all departments. Received in Construction Dept 100 lbs putty and 5 lbs ochre.

H. C. Gearing.
Lieut U.S.N.

From 8 P.M. to Midnight

Partly cloudy, cool and pleasant weather. Light airs from N.E. to E.

H. C. Gearing
Lieut U.S.N.

Noons Declination 8°16' First Quarter

Examined and found to be correct.

T. F. Jewell
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 30 Rate,

Navy Yard, Brooklyn New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
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Noon.																	

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ′ ″
- Longitude by D. R. ° ′ ″
- Latitude by observations of ⊙ ° ′ ″
- Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Position at 8 P. M.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, tons lbs.

Coal remaining on hand at Noon, " "

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under the command of Commander T. F. Jewell, U. S. Navy,
Saturday July 10th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Ends 4 A. M.
Partly cloudy, cool and pleasant. Light airs from S.E. to S. approximately. Flood tide from 2 hr- till 4.

Charles C. Rogers.
Lieut U. S. N.

From 4 to 8 A. M.
Overcast and raining. Light breze from N.W. & E. Received in Pay Dep't 86 lbs fresh beef, 86 lbs vegetables, 6 lbs fresh bread.

Hugh Rodman
Ensign U. S. N.

From 8 A. M. to Meridian.
Overcast. Light rain first part. Light airs from N.W. & E. veering during watch to N.W. & W., with signs of clearing. Got sheet anchor in place on bow. Workmen from Navy Yard on board. Naval Cadet Frederick J. Louis reported for duty. Surgn Hawkes left the ship on leave for one week.

H. le Gearing
Lieut U. S. N.

From Meridian to 4 P. M.
Overcast first half of watch, clear and pleasant latter part. Light airs from N.W. & W. Received on board from U. S. Torpedo Station with their effects (5) seamen, gunners F. L. Pollock, J. M. Mitchell, H. H. Hudson, G. Griego and R. Bruce. Workmen from Navy Yard on board. Received in Equipment Dep't for use of gallery 28 tons coal.

Charles C. Rogers.
Lieut U. S. N.

From 4 to 8 P. M.
Warm pleasant weather. Light variable airs. At 5.30 Nicholas Lear B. M. returned to the ship 4 hr days overtime. At 5.30 had muster and issued station bills to the crew. Then beat to quarters for muster. Found the following named men absent without leave, viz: J. Wells Sea, M. McElhone C. Ter, J. M. Baird Corp'l U. S. M. C. and J. McGrath, C. F.

H. le Gearing
Lieut U. S. N.

From 8 P. M. to Midnight.
Light variable airs. Clear and cool. Bright starlight.

Charles C. Rogers
Lieut U. S. N.

Moons Declination 9 11° 53' First Quarter

Examined and found to be correct.

A. W. Graham.
Lieut and Navigator.

LOG of the UNITED STATES "Ft. Essex", 30 Rate,

Navy Yard, Brooklyn, New York

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky; in 10ths.	State of the Sea.
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Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ′ ″
- Longitude by D. R. ° ′ ″
- Latitude by observations of ⊙ ° ′ ″
- Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Position at 8 P. M.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, tons lbs.

Coal remaining on hand at Noon, " "

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under the command of Commander T. F. Jewell, U. S. Navy,
Sunday July 11th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Cutie + A. M.
Clear and pleasant. Light airs.

A. F. Lechtler
Ensign U. S. N.

From 4 to 8 A. M.
Cloudy first part, cleared off last part of watch. Light to gentle breeze from Wd. Received in Pay. Dept and issued to crew 86 lbs each of fresh meat and of vegetables and 69 lbs fresh bread.

H. C. Gearing
Lieut U. S. N.

From 8 A. M. to Meridian
Clear and pleasant. Light breeze from N. and Wd at 9.30 inspected crew at quarters. At 10 read Articles of War and mustered crew. The following men were absent without leave J. H. Grath, C. F. McElhone, C. Hon, J. Wells Lea and J. F. Baird Cpl U. S. M. C. By order of the Executive Officer Comdg officer pro tem. Privt John H. Ryan was placed under restriction charge to await the action of Comdg officer. Sent church party to Oak Dock. Liberty men went on shore.

Charles C. Rogers
Lieut U. S. N.

From Meridian to 4 P. M.
Clear and pleasant. Light breeze from Wd

A. F. Lechtler
Ensign U. S. N.

From 4 to 8 P. M.
Clear and pleasant. Light breeze from N. and Wd. Flood tide at 4.30.

Charles C. Rogers
Lieut U. S. N.

From 8 P. M. to Midnight.
Clear and pleasant. Gentle breeze from N. and Wd.

A. F. Lechtler
Ensign U. S. N.

Hours Declination 8 14° 51' First Quarter

Examined and found to be correct.

A. Prado Adams
Lieut and Navigator.

List of 68 Apprentices
Received from U. S. S. Minnesota

Name	Rate	Name	Rate
Attridge J. C.	Appr 1.C.	Freeman A. H.	2.Appr. 2.C.
Bethke S.	2.do 2.C.	Greene John	do
Bergman A.	Appr. 1.C.	Gaynor F. J.	Appr. 1.C.
Bibs Jos. A.	do	Gerrity Jas F.	2.Appr 2.C.
Buchanan F. J.	2.Appr. 2.C.	Gerbrach R. F.	do
Barrett R. J.	Appr. 1.C.	Hartle Jno	Appr. 1.C.
Breitenheimer A. S.	2.do. 2.C.	Howard Chas.	2. Appr. 2.C.
Birkett A. T.	Appr. 1.C.	Howe Wm. J.	Appr. 1.C.
Clifford T. J.	2.do. 2.C.	Hogarty Patk	do
Charette Geo.	do	Harvey C. H.	do
Gannon Jno	Appr. 1.C.	Hewitt T. H.	do
Gooding asst S.	2. Appr. 2.C.	Hagler Pter	do
Gabel W. H.	Appr. 1.C.	Hammond Wm. C.	do
Chambers W. H.	2.Appr. 2.C.	Jordan Jas	2.Appr. 2.C.
Drumm Jas.	do	Jefferson E. L.	do
Dolan C. H.	do	Jargars H. F.	do
Dooling Dennis	do 1.C.	Jarrett H. C.	Appr. 2.C.
Emery Peter	Appr. 1.C.	Johnson Thr. E.	2. do
Fingar Peter P.	do	Kleinkaecht L. J.	do
Funk Wm. H.	do	Lippincott J. O.	2.Appr. 1.C.
Fleming John	2.Appr. 2.C.	Lovegang Chas. A.	do

, 3d Rate,

ork.

URE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.

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under the command of Commander F. F. Jewell, U. S. Navy,

Monday July 12th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Ends at 4 A. M.
Clear. Fresh breze and squalls from N. and W.

Hugh Rodman
Ensign U. S. N.

From 4 to 8 A. M.
Clear and cool. Moderate breze from N. and W. shifting to N. and E. by end of watch.

Harley Rogers.
Asst U. S. N.

From 8 A. M. to Meridian
Clear and pleasant. At 9.30 mustered at quarters. Navy Yard employees at work about ship. Engaged in receiving stores aboard. J. McGrath 1st C. F. and M. McEchnie C. for having been absent without leave ten days was by order of the Commanding Officer declared a deserter.

C. A. T. Beatty
Ensign U. S. N.

From Meridian to 4 P. M.
Clear. Light breze from S. and E. William Neville P. M. was given copy of specification, pending Summary Court Martial. Received stores in Ordnance, Navigation, Equipment and Engineers Departments. Navy Yard hands at work on board.

Hugh Rodman
Ensign U. S. N.

From 4 to 8 P. M.
Clear and pleasant. Receiving stores on board. Yard people at work on ship. Received from U. S. S. "Minnesota" a draft of 68 Naval Apprentices; as per appended list.

C. A. T. Beatty
Ensign U. S. N.

From 8 P. M. to Midnight
Clear. Variable light airs.

Hugh Rodman.
Ensign U. S. N.

Hours Declination 9 m/o 0's Fresh Quarter.

Examined and found to be correct.

F. F. Jewell
Lieut and Navigator.

LOG of the UNITED STATES "Ft. Essex", 30 Rate,

Navy Yard, Brooklyn, New York

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky; in 10ths.	State of the Sea.
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Noon.																	

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ′ ″
- Longitude by D. R. ° ′ ″
- Latitude by observations of ⊙ ° ′ ″
- Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Position at 8 P. M.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, tons lbs.

Coal remaining on hand at Noon, " "

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under the command of Commander T. F. Jewell, U. S. Navy,
Thursday July 13th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From Commencement and Until 4 A. M.
Clear and cool. Light & westerly airs.

H. L. Gearing
Lieut U. S. N.

From 4 to 8 A. M.
Clear and pleasant. Light southerly airs. Received in Paymasters Department fresh provisions for crew; 178 lbs vegetables, 170 lbs fresh beef, 136 lbs bread.

A. H. Chatterton
Ensign U. S. N.

From 8 A. M. to Meridian.
Clear. Light breeze from 2d & E. Mustered and inspected crew at quarters, found J. Wells Sea 2nd & J. Williams B. M. absent without leave. Naval Cadet W. B. Hoggatt, U. S. N. reported for duty on board this vessel. Crew engaged in taking in stores. Received stores in Navigation Ordnance, Engineers and Equipment Departments. Navy Yard hands at work on board.

Hugh Rodman
Ensign U. S. N.

From Meridian to 4 P. M.
Pleasant weather. Gentle S. W. breezes. Workmen from yard on board engaged in all departments. Received in bunkers 10 tons of coal, for steam trial of engines. Filling boilers with fresh water. At 1.26 Summary Court Martial convened for trial of William Noble P. M. Court adjourned at 3.30 to await action of reviewing authority.

H. L. Gearing
Lieut U. S. N.

From 4 to 8 P. M.
Cloudy. Calms and light breeze from S. & E. Lieut H. Gearing U. S. N. was granted leave of absence for five days from this date and left the ship. Mustered crew at quarters and found J. Wells Sea & J. Williams B. M. absent without leave.

Hugh Rodman
Ensign U. S. N.

From 8 P. M. to Midnight.
Cloudy. Light breeze from S. E., followed by light airs.

J. J. Blandin
Ensign U. S. N.

Moons Declination S 18° 22' First Quarter.

Examined and found to be correct.

A. T. Mahan
Lieut U. S. N. Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,
Navy Yard, Brooklyn New York

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
Noon.																	

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ′ ″
- Longitude by D. R. ° ′ ″
- Latitude by observations of ⊙ ° ′ ″
- Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Position at 8 P. M.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, 3 tons 1975 lbs.

Coal remaining on hand at Noon, 6 " 315 "

P. M.																	
1																	
2																	
3																	
4																	
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7																	
8																	
9																	
10																	
11																	
Mid.																	

under the command of Commander T. F. Jewell, U. S. Navy,
Wednesday July 14th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From 12 M. to 4 A. M.
Commences and Ends 4 A. M.
Cloudy first part. Clear latter part of watch. Gentle breeze from N. E.

Charles C. Rogers
Lieut U. S. N.

From 4 to 8 A. M.
Overcast and cloudy. Light breeze from S. and E. Started fires in all boilers at 7 A. M.

Hugh Rodman
Ensign U. S. N.

From 8 A. M. to Meridian.
Partially clear and pleasant. Light breeze from S. and E. Received covers for spanker mast, mainsail, main topsail and mizzen mast. Sent down gear from main yard ready for steaming. At 9.55 went to quarters. The following men were absent without leave John Wells Seaman J. Williams B. F. The Chief Engineer reported steam ready (30 lbs) at 10.05. Started engine at 10.35. Testing engines throughout watch. Draft of ship 15 9" fwd, 16 6 aft. Navy yard workmen on board.

J. J. Blanding.
Ensign U. S. N.

From Meridian to 4 P. M.
Clear and pleasant first part of watch cloudy and misty latter part. Gentle breeze from S. E. Cadet Engineer J. Arnold U. S. N. left the ship in 3 days leave. Received from the U. S. S. "Minnesota" with bags, hammocks and necessary transfer papers E. Dubois and W. J. McCullen. Held an inquest of clothes of J. Mc. Grath I. C. F. and M. Mc. Elduff C. for deserters from this vessel. Testing engines until 3.30 when stopped and hauled fires. Received stores on board. Received yard fitting ship.

Charles C. Rogers
Lieut U. S. N.

From 4 to 8 P. M.
Cloudy and raining. Light breeze from S. E. Overhauled moorings after steam trial.

J. J. Blanding
Ensign U. S. N.

From 8 P. M. to Midnight.
Heavy showers of rain, accompanied by vivid lightning during first half of watch. Cloudy last half. Light breeze from S. E.

Charles C. Rogers
Lieut U. S. N.

Hours Declination S 18° 4' First Quarter.

Examined and found to be correct.

P. V. McAdam.
Lieut and Navigator.

LOG of the UNITED STATES, Steamer "Essex", 3d Rate,

Navy Yard, Brooklyn New York

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
Noon.																	

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ′ ″
- Longitude by D. R. ° ′ ″
- Latitude by observations of ⊙ ° ′ ″
- Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Position at 8 P. M.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, tons 9/10 lbs.

Coal remaining on hand at Noon, 5 " 1645 "

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
P. M.																	
1																	
2																	
3																	
4																	
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9																	
10																	
11																	
Mid.																	

under the command of Commander T. F. Jewell, U. S. Navy,

Thursday July 15th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends at 4 A.M.
Overcast and cloudy. Light airs from S. E.

A. F. Scanlan
Ensign U. S. N.

From 4 to 8 A.M.
Cloudy with showers. Calm and light airs from S. E. Holystoned spar deck. Received in Paymaster's department fresh provisions for crew.

J. J. Blandin.
Ensign U. S. N.

From 8 A.M. to Meridian.
Cloudy with occasional sunshine. Light breeze from S. E. to S. at end of watch. At 9.50 mustered crew at quarters. The following men were absent without leave J. Williams QM, J. Wilds Seaman, T. E. Hendricks C. F. Workmen from yard fitted new hammock clothes. Men engaged in receiving stores and fitting ship. At 11.40 a visitor was found on board with liquor in his person, by order of Cond'g Officer, sent him to Navy Yard gate under charge of a guard.

Charles C. Rogers.
Lieut U. S. N.

From Meridian to 4 P.M.
Cloudy and warm. Light breeze from S. Navy Yard people at work on ship. Engaged in receiving stores on board. At 3.55 called all hands to muster and read an order from the Commander which stated that Private Neville U. S. M. C. had been found guilty by Summary Court Martial of absence without leave, and in execution also that the Court Martial had sentenced him to be dismissed from the service with bad conduct discharge, Neville was accordingly discharged from the ship and service. Ensign J. J. Blandin U. S. N was detached from this ship.

A. F. Scanlan
Ensign U. S. N.

From 4 to 8 P.M.
Cloudy but pleasant. Light breeze from S. at 4.30 Private Neville U. S. M. C. under charge of a Sergeant was sent to the Marine Barracks with his effects. At sunset mustered crew at quarters.

Charles C. Rogers
Lieut U. S. N.

From 8 P.M. to Midnight
Cloudy. Light to moderate breeze from S. and E.

A. F. Scanlan
Ensign U. S. N.

Mean Declination 3° 18' First Quarter.

Examined and found to be correct.

F. F. Draughan.
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Navy Yard, Brooklyn New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1					S E.	3-4			29.86	71	70	69		o.cgrpc	cumb	0	
2					S S E.	3-4			29.85	71	70	69		"	"	0	
3					S E.	2-3			29.84	72	70	69		crpc.	cumu	0	
4					"	2			29.84	72	70	69		"	"	1	
5					"	1			29.84	72	72	70		b.cr.	cumb	0	
6					"	1			29.84	72	72	70		"	"	0	
7					"	1			29.88	70	69	68		"	"	0	
8					S	1			29.84	70	69	68		"	"	0	
9					S S E.	2			29.87	72	70	69		l.c.	"	0	
10					"	2			29.89	72	72	69		"	"	0	
11					"	2			29.88	72	72	69		"	"	0	
Noon.					"	2			29.88	72	72	70		"	"	0	

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: { Latitude by D. R. ° ' "
Longitude by D. R. ° ' "
Latitude by observations of ⊙ ° ' "
Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. { Latitude by ° ' "
Longitude by ° ' "

Position at 8 P. M. { Latitude by ° ' "
Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, tons lbs.

Coal remaining on hand at Noon, " "

P. M.																	
1					S W by W.	1			29.88	73	73	70		o.c.	cumb cumu	0	
2					S W.	1			29.84	73	73	71		o.c.d.	"	0	
3					S E by S.	1			29.84	74	73	72		"	"	0	
4					S.	1			29.84	74	74	71		"	"	0	
5					S S W.	2			29.84	74	74	71		b.c.	cumu	1	
6					S W.	2			29.84	75	74	72		"	"	1	
7					"	2			29.84	74	73	71		"	cb	1	
8					S.	2			29.84	73	72	71		"	cumu cumb	1	
9					"	1			29.88	72	71	71		"	"	1	
10					Calm	0			29.89	72	71	70		"	"	2	
11					S W.	1			29.89	72	71	70		"	"	3	
Mid.					"	1			29.89	72	71	70		"	"	6	

under the command of Commander T. F. Jewell, U. S. Navy,

Friday July 16th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences Cloudy Cutter H. A. M.
Cloudy, passing showers, and squally. Wind from S.E. & E.
Hugh Rodman
Ensign U. S. N.

From H. to 8. A. M.
Steady rainfall throughout watch. Light breeze from S.E. shifting to S. by end of watch. Mr. acting hands S. E. Kendrick & F. W. Cramnigan Mtn. absentees without leave, were found on board.
Charley C. Rogers
Asst U. S. N.

From 8. A. M. to Meridian.
Cloudy. Raining first hour of watch. At 9. ho mustered at quarters, found John Wells Sea, absent without leave. Commander T. F. Jewell left the ship on leave for one week.
A. Pearson
Ensign U. S. N.

From Meridian to 4. P. M.
Overcast, raining & drizzling. Light breeze from S.E. & S. & E. & S.
L. H. St Pierre (Capt.) was transferred to this vessel from the U.S.S. Minnesota.
Hugh Rodman
Ensign U. S. N.

From 4. to 8. P. M.
Cloudy. At 7.30 mustered at quarters.
A. Pearson
Ensign U. S. N.

From 8. P. M. to Midnight.
First part cloudy, last part clear. Wind from S. & W. & W. & calm.
Hugh Rodman
Ensign U. S. N.

Noons Declination 0, 1' S. Full Moon.

Examined and found to be correct.

F. F. Bradshaw
Asst Engr
Navigator.

LOG of the UNITED STATES Steamer "Essex", 36 Rate,

Navy Yard, Brooklyn New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	Force.	Heel.	Leeway.	BAROMETER. Height in inches.	Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	Air, Wet Bulb.	Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1					S. W.	1			29.88	72	72	70		b.c.	cir	6	
2					W.	1			29.89	71	71	69		"	"	4	
3					"	1			29.89	71	70	68		"	"	4	
4					"	1			29.89	70	69	68		"	"	5	
5					"	1			29.89	71	70	68		"	"	7	
6					"	1			29.90	71	70	68		"	"	6	
7					"	1			29.92	72	72	69		"	"	6	
8					"	1			29.92	73	72	70		"	"	9	
9					N. N. E.	1			29.92	76	76	72		b.	"	10	
10					N. W.	1			29.92	76	76	72		b.c.	cumu	9	
11					S. W.	1			29.94	79	79	72		"	"	5	
Noon.					"	1			29.94	78	78	72		"	"	6	

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, tons lbs.

Coal remaining on hand at Noon, " "

P. M.																	
1					S. S. W.	1			29.94	79	79	72		b.c.	cumu	5	
2					"	1			29.94	80	80	72		"	"	3	
3					"	1			29.94	79	81	72		"	umuh	5	
4					S. E.	1			30.03	79	81	73		"	"	5	
5					S.	1			30.03	79	80	74		"	"	5	
6					"	1			29.94	80	80	74		"	"	5	
7					"	1			30.06	79	79	74		"	"	5	
8					"	1			30.06	78	78	73		"	"	5	
9					"	1			30.05	76	76	72		"	"	5	
10					S. W.	1			30.05	76	76	72		"	"	5	
11					"	1			30.05	76	76	72		"	"	5	
Mid.					"	1			30.05	74	76	72		"	"	5	

under the command of Commander J. F. Jewell, U. S. Navy,

Saturday July 17th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Until 4 A. M.
Fair and pleasant. Light airs from S. W. & West.

W. B. Hoggatt
Naval Cadet U.S.N.

From 4 to 8 A. M.
Clear and pleasant. Light breeze from West. Received in Pay Department 170 lbs fresh beef, 170 lbs vegetables & 136 lbs fresh bread for crew.

A. T. Dutton
Ensign U. S. N.

From 8 A. M. to Meridian
Clear. Light breeze. Mustered and inspected crew at quarters at 9 30 A. M. found J. Wells Seaman absent without leave. The U. S. S. "Dolphin" got underway at 10 30 and left the Navy Yard. Surgeon J. A. Hawke U. S. N. returned from leave of absence. Naval Cadet F. J. Ellis U. S. N. left the ship on leave of absence for one week from this date.

Hugh Rodman
Ensign U. S. N.

From Meridian to 4 P. M.
Clear & warm. Light airs to light breeze from S. S. W. & S. S. E. Cadet Engr Colm Arnold U. S. N. returned from leave. Received in Pay Department five (5) mattresses & fifty (50) canvas hats.

W. B. Hoggatt
Naval Cadet U. S. N.

From 4 to 8 P. M.
Clear. Light breeze from S. Mustered crew at quarters found present men absent J. Wells Seaman, J. H. Ryan P. M. and F. Ellis P. M.

Hugh Rodman
Ensign U. S. N.

From 8 P. M. to Midnight.
Clear and pleasant. Light airs from South & S. W.

W. B. Hoggatt
Naval Cadet U.S.N.

Pays Declination 9 14 58' Full Moon

Examined and found to be correct.

A. V. Wadhams
Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Navy Yard, Brooklyn, New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1					S.W.	1			30.06	76	74	71		h.	cmc	10	
2					"	1			30.05	74	74	70		"	"	10	
3					"	1			30.04	74	74	70		"	"	10	
4					"	1			30.03	74	74	70		"	"	10	
5					Calm	0			30.04	74	74	69		bc.	cir	4	
6					"	0			30.04	74	74	69		"	"	4	
7					S.	1			30.06	74	74	71		"	"	9	
8					"	1			30.06	75	74	73		"	cimc	4	
9					S.E. by S.	1			30.06	76	74	73		"	"	4	
10					S.	1			30.09	76	74	73		"	"	4	
11					"	1			30.06	78	74	74		"	"	4	
Noon.					"	1			30.08	80	74	74		"	"	4	

Course and distance made good since preceding noon by observations, - knots. tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, tons lbs.

Coal remaining on hand at Noon, " "

P. M.																	
1					S.	2-3			30.06	80	81	76		bc.	cir cmc	4	
2					"	3			30.06	79	81	76		"	"	4	
3					"	3			30.02	79	81	74		"	"	4	
4					"	2			29.98	80	81	76		"	cir	6	
5					N.E.	2			29.98	80	82	74		"	"	5	
6					N.W.	2			29.98	80	81	74		bp.	cmc	5	
7					S.W. by S.	2			29.96	79	80	70		bc.	"	5	
8					"	1			29.96	79	80	73		"	"	1	
9					S.W.	2			29.93	79	79	83		bcl.	cmic	4	
10					"	2			29.95	78	79	75		bcll.	"	6	
11					N. N.E.	3-4			29.95	76	75	70		"	"	1	
Mid.					N.E.	2			29.95	73	75	70		bclr.	"	0	

under the command of Commander T. F. Jewell, U. S. Navy,

Sunday July 18th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Ends 4 A.M.

Clear and pleasant. Bright-moonlight. Light-breeze from S.W. Aneroid barometer 29.94 at close of watch.

Charles C. Rogers.
Lieut U.S.N.

From 4 to 8 A.M.

Clear, calm and light-airs from N. Received in Pay. Dept. 170 lbs fresh beef, 170 lbs vegetables and 136 lbs bread.

Hugh Rodman
Ensign U.S.N.

From 8 A.M. to Meridian

Clear. Light-airs from S.E. by S. and South. Went to quarters at 9.50. Sent liberty party ashore and church party to Cobh Dock. Following named men absent without leave from Wells Sea, M. Sagime Lds, J. Halpine Corpl U.S.M.C. and Privates Wm. M. Graham, J.H. Ryan and F. Collins.

W.B. Hoggatt
Naval Cadet U.S.N.

From Meridian to 4 P.M.

Clear and pleasant. Gentle breeze from South. Sent visiting party to the "Brooklyn" and Cobh Dock. Aneroid barometer 29.88 at end of watch.

Charles C. Rogers.
Lieut U.S.N.

From 4 to 8 P.M.

Generally clear passing shower second hour. Light-breeze to light-airs from N.E. N.W. and S.W. by S. Private J.H. Ryan U.S.M.C. returned to the ship after having left the ship without permission and was placed under sentry's charge to await action of the Comdg Officer. Mustered at quarters at 7.10 P.M. following named men were absent without leave J. Wells Sea, M. Sagome and F. Schneider Lds Privates Collins and Graham and Actg Corporal J. Halpine U.S.M.C.

W.B. Hoggatt
Naval Cadet U.S.N.

From 8 P.M. to Midnight.

Generally dark until ten, with light-breeze from S.W. and occasional lightning about horizon. At 10 wind shifted by way of W. and settled in N.N.E. increasing to moderate breeze at times. Sky became overcast and cloudy accompanied by lightning and distant thunder. From 11.00 till end of watch heavy rain fell accompanied by incessant lightning and loud thunder. At 11.50 wind shifted suddenly to S.S.W. Lieut H.C. Gearing U.S.N. returned from leave. Aneroid barometer 29.91 at end of watch.

Charles C. Rogers.
Lieut U.S.N.

Hours Declination 9° 1' 9" Full Moon

Examined and found to be correct.

A.V. Wadhams.
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Navy Yard, Brooklyn New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.					N. E.	1			29.93	72	71	68		c.	cumu	4	
1					"	1			29.93	72	71	68		b.c.	"	4	
2					"	1			29.93	72	70	67		"	"	4	
3					E.	1			29.93	72	70	67		"	cir	4	
4					S. E.	1			29.93	72	70	67		"	"	4	
5					Calm	0			29.98	74	71	70	68		"	4	
6					"	0			29.97	74	71	71	68	"	"	4	
7					N. W. by N.	1			29.97	74	72	71	69	"	"	4	
8					"	1			29.90	72	72	71	69	b.c.	"	4	
9					"	1			29.90	72	72	73	70	"	"	4	
10					N. N. E.	0-1			29.90	74	74	73	70	"	"	4	
11					"	0-1			29.90	74	74	73	70	"	"	4	
Noon.																	

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, tons 2 lbs.

Coal remaining on hand at Noon, 5 " 17 45 "

P. M.																	
1						N. N. W.	1			29.91	76	74	72	b.v.	cir cumu	6	
2						"	2			29.90	76	74	71	b.c.	"	6	
3						"	1			29.89	76	76	70	"	"	6	
4						"	2			29.88	76	76	70	"	cir	4	
5						W. by S.	1-2			29.88	76	76	71	"	"	2	
6						S. W.	3			29.88	76	76	72	"	cumu	6	
7						"	3			29.88	76	76	72	"	"	6	
8						W. & W.	3			29.88	76	76	72	"	"	6	
9						N. W.	2			29.93	78	72	71	b.	"	10	
10						"	3			29.93	72	71	70	b.c.	cir	4	
11						"	4			29.93	72	71	70	"	"	4	
Mid.						"	2			29.93	71	71	69	b.c.	cumu	3	

under the command of Commander T. F. Jewell, U. S. Navy,

Monday July 19th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commenced & Until 4 A.M.
Hazy pass first hour of watch. Clearing and pleasant during remainder of watch. Light airs from N.E. & E.

A. T. Beardsley
Ensign U. S. N.

From 4 to 8 A.M.
Hazy and pleasant, clearing towards end of watch. Calms & light airs from S.W. & N.W. by N.

W. B. Haggatt
Naval Cadet U.S.N.

From 8 A.M. to Meridian
Cloudy clear and pleasant. Light airs from N.W. by N. to N.N.E. Made all preparations for shifting berth. At 10.30 mustered crew at quarters. The following men were absent without leave D. Dowling app. a. C. Fehling App. H. Purdy 1 C.F. J. Halpin C.M.A., W. Graham C.M., F. Collins C.M., J. Horia Loc. M. Tagtmeier Lab. J. Donnelly app., J. F. Link app. & J. F. Sneiden App. At 10.50 Navy Yard tug came alongside. Cast off from the dock and by end of watch had reached alongside of the "Nantucket". Aneroid barometer 29.81 at noon.

Charles C. Rogers
Lieut U. S. N.

From Meridian to 4 P.M.
Clear and pleasant. Light breeze from W.N.W. "Juniata" arrived at yard. "Atlanta" went into commission. Navy Yard workmen engaged on ship. H. Patterson Esq. was transferred aboard from the "Vermont".

A. T. Beardsley
Ensign U. S. N.

From 4 to 8 P.M.
Clear and pleasant. Light breeze from W. by S. to W.S.W. At 7.15 mustered at quarters, immediately afterwards sent to Fire Quarters. Sent visiting party to concert in the "Vermont". Aneroid barometer 29.80 at end of watch.

Charles C. Rogers
Lieut U. S. N.

From 8 P.M. to Midnight
Clear at beginning and cloudy at end of watch. Light to moderate breeze from N.W.

A. T. Beardsley
Ensign U. S. N.

Noons Declination 9° 10' Free Mon.

Examined and found to be correct.

W. J. Barbazon
Lieut

Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Navy Yard, Brooklyn New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.															cir		
1					W. N. W.	2			29.90	70	68	64		b.c.	cum	6	
2					"	2			29.90	70	68	68		"	"	5	
3					"	1-2			29.90	70	68	64		"	"	4	
4					"	1			29.90	70	68	64		"	"	5	
5					N. W.	1			29.90	70	64	60		"	"	6	
6					"	1			29.90	70	69	64		"	"	6	
7					"	2			29.90	70	69	64		"	"	6	
8					"	2			29.90	70	69	64		"	"	6	
9					"	1			29.89	64	34	31		"	"	4	
10					N.	1			29.90	44	44	42		"	"	4	
11					W. N. W.	2			29.90	54	64	64		"	"	6	
Noon.					"	2			29.90	56	56	54		"	"	6	

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "
Longitude by D. R. ° ' "
Latitude by observations of ⊙ ° ' "
Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "
Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "
Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 6 " 845 "

P. M.								
1			S. W.	1	29.84	56	54	4
2			N. N. W.	1	29.84	54	46	3
3			"	1	29.86	54	54	4
4			"	1	29.86	48	44	4
5			W. W. W.	2	29.86	44	44	4
6			"	1-2	29.86	44	44	4
7			"	3	29.86	46	46	4
8			N.	1	29.86	46	46	4
9			Calm	0	29.88	46	44	10
10			"	0	29.84	46	44	6
11			"	0	29.84	44	43	6
Mid.			"	0	29.84	44	43	6

under the command of Commander T. F. Jewett, U. S. Navy,

Tuesday July 20th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From Mer. and Until 4 A. M.
Cool and pleasant. Light breeze from N. & W.

Hugh Rodman
Ensign U. S. N.

From 4 to 8 A. M.
Clear and pleasant. Light breeze from N. W. at 7 J. F. Link App. returned on board having been absent from the ship without leave. Received in Pay. Dept. for use of crew 170 lbs fresh beef, 170 lbs vegetables & 136 lbs fresh bread. Aneroid Barometer 29.80 at end of watch.

Charles C. Rogers
Lieut U. S. N.

From 8. A. M. to Midnight.
Clear and pleasant. Light breeze from N. to W. N. W. At 9 30 mustered at quarters. Navy Yard workmen engaged on ship. P.A. Paymaster H. R. Smith U.S.N. left the ship on one weeks leave of absence.

A. F. Rechlin
Ensign U. S. N.

From Meridian to 4 P. M.
Cloudy. Variable light breezes. Jos O'Neil Painter, returned on board eight (8) hours overtime. Received in Construction Dept. 6 strong backs for boats davits.

Hugh Rodman
Ensign U. S. N.

From 4 to 8 P. M.
Clear and pleasant. Light to gentle breeze from N. W. by N. at 7.00 mustered at quarters. Found the following men absent without leave. A.C. Emling apprt, J. Moreau Lds J. Clifford apprt, N. Hardy 1 C.F., M. Tagnio Lds, J. Samuel apprt, J. Halpin P.M. W. Graham P.M. and F. Collins P.M. Transferred to this ship from "Vermont." F. Clarke Lds and C.O. Paradis Lds.

A. F. Rechlin
Ensign U. S. N.

From 8 P. M. to Midnight.
Pleasant. Calm. J. Halpin P.M. returned on board 8 hours overtime.

Hugh Rodman
Ensign U. S. N.

Mean Declination 15° 40" Full Moon.

Examined and found to be correct.

L. R. Williams
Lieut
Navigator.

LOG of the UNITED STATES Steamer "Essex", 30 Rate,
Navy Yard, Brooklyn New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.					Calm	0			29.88	62	64	63		o.c.	cir cumu	4	
1					"	0			29.88	62	64	63		"	"	3	
2					"	0			29.88	62	64	63		"	"	3	
3					"	0			29.88	62	64	63		"	"	3	
4					"	0			29.88	62	64	63		"	"	0	
5					"	0			29.89	62	62	61		"	"	0	
6					N. N. E.	1			29.88	62	62	61		"	"	0	
7					"	2			29.90	62	61	61		o.cu.	cumu	0	
8					"	3			29.90	62	62	60		"	"	0	
9					"	1			29.92	62	69	69		o.c.	"	0	
10					"	1			29.92	62	68	68		"	"	0	
11					"	1			29.90	62	64	64		"	"	0	
Noon.					E by N.	1			29.90	62	68	68		"	cumu	0	

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, tons ~~1 1/2~~ lbs.

Coal remaining on hand at Noon, 5 " 445 "

P. M.						
1	S. S. E.	1	29.89	62	o.cu.	cumu 0
2	S. E.	1	29.89	62	o.c.	" 0
3	"	1	29.89	62	"	" 0
4	"	1	29.89	62	"	" 0
5	N. E.	1	29.89	62	o.cy.	cumu 0
6	"	1	29.88	62	"	" 0
7	"	1	29.88	62	o.c.	" 2
8	"	1	29.88	62	o.c.	" 0
9	"	1	29.88	62	o.cu.	" 8
10	"	1	29.88	62	"	" 8
11	"	1	29.88	62	"	" 8
Mid.	"	1	29.88	62	"	" 8

under the command of Commander T. F. Jewell, U. S. Navy,

Wednesday July 21st, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Unfit at A. M.
Calm. Cloudy with obscured moonlight.
H. B. Gearing
Lieut U. S. N.

From 4 to 8 A. M.
Cloudy. Raining last hour of watch. Calm and light to gentle breeze from N. N. E. Read in Pay. Dept 170 lbs fresh beef, 170 lbs fresh vegetables & 150 lbs fresh bread.
C. A. T. Degelow
Ensign U. S. N.

From 8. A. M. to Meridian
Overcast, rainy. Light breeze from N. and E. Lieut G. C. Logan U. S. N. was granted seven (7) days leave from this date.
Hugh Rodman
Ensign U. S. N.

From Meridian to 4 P. M.
Overcast and cloudy with light drizzle first hour. Light S. E airs. Workmen in Engineers Dept fitting ship for sea. Received from U. S. R. S. "Vermont" Ship Jas Lee, shipped for special service. J. Wells Sea having been absent for ten (10) days without leave is this day by order of Com'dg Officer declared a deserter from the Naval Service.
H. B. Gearing
Lieut U. S. N.

From 4 to 8 P. M.
Overcast. Light breeze from N. and E. Mustered at gangways at 7 P. M. found following named men absent without leave. J. Ellis Pvt W. McGraham P. M. Jas Donnell app. A. L. Snelling app. F. St. C. Cundy 1st C. J. E. Cottridge app. T. E. Johnson app. J. Moriad Lab. M. Tagni Lab. H. Schrengor Tailor, and T. J. Clifford app.
Hugh Rodman
Ensign U. S. N.

From 8. P. M. to Midnight
Cloudy. Clear forehead, a mist hanging over river and city. Light airs from S. E. J. Donnell app. absent without leave returned to the ship 4 hours, H. Schrengor Tailor, 13 hrs overtime, returned to the ship.
H. B. Gearing.
Lieut U. S. N.

Hours Declination 9 15' 6 Full Moon.

Examined and found to be correct.

L. J. Warburton
Lieut Navigator.

LOG of the UNITED STATES Steamer Essex, 30 Rate,

Navy Yard, Brooklyn New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.					N. E.	1			29.89	69	68			b.cw.	cir.	8	
1					"	1			29.89	69	68			"	nimb	8	
2					"	1			29.89	69	68			"	"	8	
3					"	1			29.86	69	68			b.cz.	cir	6	
4					"	1			29.86	69	68			"	"	6	
5					"N.	1			29.88	69	64			b.c.	cumu	4	
6					"	1			29.91	69	64			"	"	8	
7					"	1			29.91	70	68			"	"	8	
8					"	1			29.92	70	69			"	"	8	
9					N. W.	2			29.94	72	72			"	"	8	
10					"	2			29.96	74	75			"	"	8	
11					W. by W.	3			29.95	76	78			"	"	8	
Noon.					"	1			29.94	79	78			b.c.	"	8	

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, tons 4 lbs.

Coal remaining on hand at Noon, 5 " 45 "

P. M.																	
1					W. by W.	1			29.99	79	81			b.c.	cir	8	
2					"	1			29.99	79	81			"	cumu	8	
3					"	1			29.99	79	79			b.cp.	"	8	
4					N. W.	1			29.99	79	80			"	"	8	
5					N. N. W.	1			29.99	78	79			b.c.	cir	9	
6					N. W.	1			29.99	78	79			"	cumu	8	
7					"	1			30.00	78	76			"	"	8	
8					"	1			30.00	78	76			"	"	8	
9					"	1			30.03	77	76			b	nme	10	
10					"	1			30.04	76	76			"	"	10	
11					N. N. W.	1			30.05	76	75			"	"	10	
Mid.					"	1			30.05	76	75			"	"	10	

under the command of Commander T. F. Jewell, U. S. Navy,

Thursday July 22nd, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Latter pt A. M. Hazy and pleasant. Light airs from N. E.

W. B. Hoggatt
Naval Cadet U. S. N.

From 4 to 8 A. M. Clear. Light breeze from W. J. E. Attridge App. returned on board, 2 hours overtime.

Hugh Rodman
Ensign U. S. N.

From 8 A. M. to Meridian Clear pleasant. Light airs and breezes from N. W. W. S. W. & South. Transferred to "Vermont" by order of the Commandant of Station. H. D. Nailor Mchst. J. E. Johnson App. returned to the ship 2 hours overtime. H. St. Mc Cready I. C. returned to the ship 3 days & 3 hrs overtime. Workmen in Instruction Dept fitting ship for sea. Set reading for bending sails. Received on board, my fore set of sails, viz: mizzen st'sl flying jib, jib, fore topmast st'sail, fore and main sail, fore and main topsails, fore and main topgallant sails, fore and main royal, main t'gsail, spanker and gaff topsail. Marine Guard exercised with other guards of recruits and stations in Battalion drill. Received in Pay Dept. 200 leggins and 10 prs (sample) calf-skin shoes.

H. le Gearing.
Lieut U. S. N.

From Meridian to 4 P. M. Generally clear and pleasant. Passing shower third hour. Light airs. Called all hands at 1.15. Crossed Light-Yards, Sent and Made Sail to Royals. Furled Sail, Sent down Light-Yards and Unbent Light Sails and Mainsail. Received from U. S. R. S. "Vermont" John Daly Lds and Frank J. Hand Ds. Made Signals Int. 12253 to "Vermont". Answered 1904.

W. B. Hoggatt
Naval Cadet U. S. N.

From 4 to 8 P. M. Pleasant. Light breeze from N. W.

H. le Gearing
Lieut U. S. N.

From 8 P. M. to Midnight Clear and pleasant. Light airs from N. W. and N. N. W.

W. B. Hoggatt
Naval Cadet U. S. N.

Hours Declination N 16° 6' Fuel Hom

Examined and found to be correct.

H. le Gearing
Lieut
Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Navy Yard, Brooklyn New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	Force.	Heel.	Leeway.	BAROMETER. Height in inches.	Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	Air, Wet Bulb.	Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.															cir.		
1					N. N. E.	1			30.05	74	71	69		b.c.	cum	8	
2					"	1			30.05	74	71	69		"	"	8	
3					"	1			30.05	73	69	67		"	"	8	
4					N. E.	1			30.05	70	68	66		"	cir cum	8	
5					N. E.	3			30.07	70	68	67		b.c.p.	cir	4	
6					N. E.	3			30.10	70	68	66		b.c.	"	9	
7					N. by E.	3			30.13	70	67	66		"	"	9	
8					"	3			30.14	70	67	66		"	"	9	
9					N.	3			30.16	70	70	69		"	"	9	
10					"	2			30.16	72	73	69		"	"	4	
11					N. N. E.	3			30.16	74	73	73		"	cum	8	
Noon.					N.	2			30.16	76	74	73		"	cir	9	

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, tons 4 cwt lbs.

Coal remaining on hand at Noon, 4 " 1885 "

P. M.									
1			N.	3	30.16	74	69	b.c.	cir	8	
2			"	3	30.16	75	69	"	cum	8	
3			"	3	30.16	74	69	"	"	8	
4			"	3	30.15	74	69	"	"	4	
5			N. W.	3	30.15	74	69	"	"	4	
6			"	3	30.16	74	69	"	"	4	
7			"	2	30.15	75	69	"	"	4	
8			"	2	30.15	75	69	"	"	4	
9			N. N. W.	2	30.15	75	68	b.c.	cum	10	
10			"	2	30.15	74	67	"	"	10	
11			"	3	30.15	73	67	"	"	10	
Mid.			"	3	30.14	73	67	"	"	10	

under the command of Commander T. F. Jewell, U. S. Navy,

Friday July 23d, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Cloudy. Light breeze from N. N. E. and N. E.

A. F. Schlutter
Ensign U. S. N.

From 4 to 8 A.M.
Cloudy and cool. Gentle breeze from North and N by E. Received on board and stowed 50 tons of coal by 6 lbs per ton, 150 lbs original and 136 lbs per ton bodd. Scraped spars.

W. H. Clearing
Clerk U. S. N.

From 8 A.M. to Meridian
Clear and pleasant. Gentle breeze from North and N. N. E. The Executive Jewell officer returned from leave. Finished scraping spars. Went to quarters at 9.55. The following named men were absent without leave J. Fernandez C.A., L. Hart C. H. T., Ewing apr, T. J. Clifford apr, J. Mossop P.M. F. Ellis P.M. and W. H. Graham P.M. The Marine Guard were drilled on shore under charge of the Marine Officer. The foregoing stores were received on board in Equipt & Recvg. which appended. Navy Yard workmen engaged on board.

W. B. Doggett
Naval Cadet U. S. N.

From Meridian to 4 P.M.
Clear and warm. Gentle breeze from North. Receiving stores on board in Equipment and Navigation Departments. A few navy yard workmen employed on board.

A. F. Schlutter
Ensign U. S. N.

From 4 to 8 P.M.
Clear and pleasant. Gentle to light breeze from N. W. Mustered crew at quarters at 7.15. The following named men were absent without leave J. Fernandez C.A.; T. J. Clifford apr, A. L. Ewing apr, H. Evelyn C.A.C., F. Ellis P.M. Wm. Graham P.M. and J. Mossop P.M.

W. B. Doggett
Naval Cadet U.S.N.

From 8 P.M. to Midnight
Clear and pleasant. Light to gentle breeze from N. N. W. Placed J. Mossop P.M. under sentry's charge to await his getting sober.

A. F. Schlutter
Ensign U. S. N.

Moons Declination N 5° 45' Full Moon

Examined and found to be correct.

E. W. Eaton
Lieut. U. S. N.
Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Navy Yard, Brooklyn New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.															cir.		
1					N. N. E.	1			30.05	74	74	69		b.c.	cum	8	
2					"	1			30.05	74	74	69		"	"	8	
3					"	1			30.05	75	69	67		"	"	8	
4					N. E.	1			30.05	70	68	66		"	cir cum	8	
5					N.	3			30.07	70	68	64		b.c.p.	cir	4	
6					N. E.	3			30.10	70	68	66		b.c.	"	9	
7					N. by E.	3			30.13	[illegible]							
8																	
9																	
10																	
11																	
Noon.																	

Course and distance made good since p

Position at Noon: Latitude by D. l / Longitude by D. / Latitude by obse / Longitude by ch

Position at 8 a. m. Latitude by / Longitude by

Position at 8 P. M. Latitude by / Longitude by

Current during the time, knot

Variation of the Compass by Amplitude

Variation of the Compass by Amplitude

Variation of the Compass by Azimuth ⊙

Variation of the Compass by Azimuth ⊙

Water expended during the preceding 24

Water during th

Water remaining on hand fit for use at N

Coal consumed during the preceding 24 h

Coal remaining on hand at Noon,

Articles Received in E. Yard July 30th

One (1) Fore Sail
One (1) " Topsail
One (1) " Jgib Sail
One (1) " Royal
One (1) Main Topsail
One (1) " Jgibsail
One (1) " Royal
One (1) F. Jnt. Staysail
One (1) M. " "
One (1) " Storm "
One (1) " Jnt. "
One (1) F. Storm "
One (1) M. " "
One (1) Standing Jib
One (1) Flying "
One (1) Main Trysail
One (1) Storm Mizzen
One (1) Spanker
One (1) Gaff Topsail

Thirty (30) Harbor Gaskets
Fifty (50) Reef Points
One (1) Set Pump Hose (Canvas)
Three (3) Skylight Covers
One (1) Set Fore Covers
Nine (9) Windsail Covers
One (1) Set Awning Curtains
One (1) Smoke Sail
Nine (9) Windsails
One (1) Gangway Ladder Screen
One (1) Water Bag (for Launch)
Three (3) Binnacle Covers

P. M.																	
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8					"	2			30.15	76	76	73		"	"	4	
9					N. N. W.	2			30.15	76	74	68		"h.	nmc	10	
10					"	2			30.15	74	72	72		"	"	10	
11					"	3			30.15	68	72	70		"	"	10	
Mid.					"	3			30.14	73	71	70		"	"	10	

LOG of the UNITED STATES Steamer "Essex", 3d Rate,
Navy Yard, Brooklyn New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1					Calm	0			30.20	70	70	68		h.	nme	10	
2					"	0			30.20	70	69	68		"	"	10	
3					W.	1			30.20	70	68	64		"	"	10	
4					"	1			30.20	69	68	64		"	"	10	
5					"	1			30.20	69	67	65		"	"	10	
6					N.W.	1			30.20	70	67	65		"	"	10	
7					"	1			30.20	70	69	67		"	"	10	
8					"	1			30.20	71	71	69		"	"	10	
9					"	1			30.20	71	71	68		"	"	10	
10					"	1			30.22	73	73	72		"	"	10	
11					Calm	0			30.24	73	73	71		"	"	10	
Noon.					N.W. by N.	1			30.25	73	73	71		"	"	10	

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "
Longitude by D. R. ° ' "
Latitude by observations of ⊙ ° ' "
Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "
Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "
Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, tons 4 lbs.

Coal remaining on hand at Noon, 4 " 1845 "

P. M.																	
1					S.W.	1			30.26	76	76	76		h.	nme	10	
2					"	1			30.24	77	77	74		"	"	10	
3					"	1			30.24	77	64	64		h.c.	cir	9	
4					"	1			30.24	77	62	62		0	cmc	9	
5					"	1			30.20	76	70	74		"	cir	9	
6					S.	2			30.19	75	70	70		"	"	9	
7					"	2			30.18	74	74	73		"	"	8	
8					"	2			30.18	73	72	71		"	0	8	
9					"	2			30.18	72	73	72		"	nme	10	
10					"	2			30.18	72	73	72		"	"	10	
11					"	2			30.18	72	73	72		"	"	10	
Mid.					"	2			30.18	72	71	69		"	"	10	

under the command of Commander T. F. Jewell, U. S. Navy,

Saturday July 24th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Ends A.M.
Clear. Calm and light breeze from N.E.

Hugh Rodman
Ensign U.S.N.

From 4. to 8. A.M.
Clear and pleasant. Light airs from W.S.W. and N.W. Naval Cadet T.J. Ellis U.S.N. returned from leave.

W.B. Hoggatt
Naval Cadet U.S.N.

From 8. A.M. to Meridian.
Clear pleasant. Calm and light airs from N.W. Ensign W.B. Hoggatt U.S.N. left the ship on three days leave. At 9. Inspected at quarters and found the following named men absent without leave F. Ellis P.M. W.M. Graham P.M. J. Fernandez C.A.G. T.J. Clifford App. Exercised at fire quarters. Stationed men for abandoning ship.

A.T. Beckwith
Ensign U.S.N.

From Meridian to 4. P.M.
Clear. Light breeze from S.E.

Hugh Rodman
Ensign U.S.N.

From 4. to 8. P.M.
Clear and pleasant. Light breeze from S. and S.W. At 7.30 mustered at quarters. Found the following named men were absent without leave F. Ellis P.M. W.M. Graham P.M. J. Fernandez C.A.G., T.J. Clifford App'd and T. Calling App.

A.T. Beckwith
Ensign U.S.N.

From 8. P.M. to Midnight.
Clear Light breeze from S.

Hugh Rodman
Ensign U.S.N.

Moons Declination N 9° 36' Last Quarter

Examined and found to be correct.

T.F. Jewell
Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Navy Yard, Brooklyn New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.					S.	2			30.16	74	70	69		h.	none	10	
1					"	2			30.16	74	70	69		b.c.	cum	8	
2					"	2			30.16	74	70	69		"	"	9	
3					"	2			30.16	74	70	69		"	"	8	
4					S.W.	3			30.15	74	70	69	68	h.cu	cir cum	0	
5					"	2			30.15	74	72	70	69	"	"	3	
6					"	2			30.15	74	71	69	69	"	"	3	
7					"	2			30.15	74	72	71	69	"	"	2	
8					S.	3			30.15	74	72	71	69	b.c.	"	0	
9					S.W.	2			30.15	74	72	72	69	b.c.	"	2	
10					"	2			30.15	74	73	72	70	"	"	2	
11					"	2			30.15	74	73	72	70	"	"	2	
Noon.					"	2			30.15	74	74	73	71	"	"	2	

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, tons 4 lbs.

Coal remaining on hand at Noon, 4 " 1485 "

P. M.								
1		S.	3	30.13	74	70	cir cum	4
2		"	3	30.12	74	70	c.	0
3		S.S.E.	3	30.10	74	69	cp.	0
4		"	3	30.10	74	69	"	0
5		"	1	30.09	74	69	o.c.	2
6		"	2	30.09	74	72	b.c.	cum nmb 3
7		"	1	30.04	74	72	"	2
8		"	1	30.04	74	72	"	3
9		S.E.	2	30.04	74	72	c.	1
10		S.	2	30.04	74	72	b.c.	1
11		"	2	30.04	74	71	"	4
Mid.		"	1	30.04	74	71	"	3

under the command of Commander T. F. Jewell, U. S. Navy,

Sunday July 25th, 1886

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends H. A. M.
Cool and pleasant. Light breeze from South. Hove to at 12.10.
H. L. Gearing
Lieut U. S. N.

From 4 to 8 A. M.
Cloudy. Light to gentle breeze from S and SW. Received in Pay. Dept 170 lbs fresh beef, 170 lbs vegetables and 136 lbs fresh bread.
A. F. Coalter
Ensign U. S. N.

From 8 A. M. to Meridian
Cloudy. Light breeze from SW. The Executive officer inspects the ship and crew at quarters. Found the following named men absent without leave. P. Collins OM, W. M. Graham PM, J. Fernandez CA, T. J. Clifford app, A. S. Conling app, J. Beatle app. Capt Eugenius D. C. Redgrave U.S.M.C. was granted leave of absence for five days from this date.
Hugh Rodman
Ensign U. S. N.

From Meridian to 4 P. M.
Cloudy, cool. Light passing showers 3d and 4th hours. Gentle breeze from S and S.E.
H. L. Gearing
Lieut U. S. N.

From 4 to 8 P. M.
Cloudy and overcast. Light breeze from S.S.E. Hostess crew at quarters found the following named men absent without leave F. Collins OM, W. M. Graham PM, T. J. Clifford app, A. S. Conling app, J. Fernandez CA, and J. Beatle app.
Hugh Rodman
Ensign U. S. N.

From 8 P. M. to Midnight
Cloudy. Clearing off last hour. Light airs and breeze from South.
H. L. Gearing
Lieut U. S. N.

Moons Declination N 17° 46' Last Quarter

Examined and found to be correct.

T. F. Jewell
Lieut
Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,
Navy Yard, Brooklyn New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1					S.W. by S.	1			30.04	72	70	69		b.c.	cir cumu	3	
2					"	1			30.04	72	70	69		b.c.	"	2	
3					"	1			30.02	72	70	70		"	"	2	
4					S.W.	1			30.02	72	72	71		b.c.	"	2	
5					"	1			29.98	72	71	70		b.c.	cumu	0	
6					Calm	0			29.98	72	72	70		"	"	0	
7					S.E.	1			29.98	72	72	71		"	"	0	
8					W.	1			29.98	72	72	71		"	"	0	
9					"	1			30.00	72	73	72		b.c.	cir cumu	3	
10					"	1			30.00	72	75	74		"	"	4	
11					S.W.	2			30.00	75	77	75		"	"	3	
Noon.					"	2			30.00	76	77	76		"	"	4	
P. M.																	
1					S. E.	2			29.98	76	77	76		b.c.	cir cumu	1	
2					"	2			29.98	76	77	76		"	"	1	
3					"	2			29.98	76	78	76		"	"	1	
4					"	2			29.98	76	78	76		"	"	1	
5					S. by E.	2			29.95	76	77	76		"	"	3	
6					"	2			29.94	76	76	75		"	"	4	
7					S.	2			29.94	76	76	75		o.c. p.th.	"	0	
8					S. by E.	2			29.94	75	75	74		"	"	0	
9					S.	2			29.93	75	74	74		o.c.	"	0	
10					"	1			29.93	76	75	74		b.c.	cumu	3	
11					"	1			29.91	76	75	74		"	"	3	
Mid.					"	1			29.91	76	75	74		"	"	6	

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ' "
Longitude by D. R. ° ' "
Latitude by observations of ⊙ ° ' "
Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.: Latitude by ° ' "
Longitude by ° ' "

Position at 8 P. M.: Latitude by ° ' "
Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, tons 1700 lbs.

Coal remaining on hand at Noon, 4 " 685 "

under the command of Commander T. F. Jewell, U. S. Navy,

Monday July 26th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Until 4 A. M.

Partly cloudy first hour, overcast remainder. Light airs from S.W. by S. Moored at 1.

T. J. Stoney
Naval Cadet U.S.N.

From 4 to 8 A. M.

Overcast: variable light breezes & calms. J. Blake app. returned on board 24 hours overtime.

Hugh Rodman
Ensign U.S.N.

From 8 A.M. to Meridian

Cloudy and Warm. Light airs from West first part and light breeze from S. by W. rest of watch. At 9.30 bent to General Quarters tides & divisions reporting ready as follows, viz. 1st 11.15, 2d 4.00 3d 4.35, Max. 5.15, Bows 9.45, Offrs 1.20, Marines 1.30. At 10.50 loosed sail.

N. E. Searing
Lieut U.S.N.

From Meridian to 4 P.M.

Partly cloudy. Light breeze from S.S.E. Furled sail at 1. Received stores in Quarterboats. Ordnance & Navigation Departments Served out small stores. Received from the U.S.S. Vermont, Coal bag & Hammock

T. J. Stoney
Naval Cadet

From 4 to 8 P.M.

Cloudy first part, latter part light rain with thunder and lightning. Light breeze from South to S.W. At 5.10 went to Fire Quarters. Exercised crew at stations for provisioning boats and Abandon Ship. Lieut C. S. Galloway U.S.N. reports for duty on this ship.

N. E. Searing
Lieut U.S.N.

From 8 P.M. to Midnight

Overcast and rainy at times. Light airs from South. Sent liberty party ashore. T. J. Clifford app. returned on board eight (8) days overtime. Private W. M. Graham U.S.M.C. returned on board nine (9) days overtime.

T. J. Stoney
Naval Cadet

Noon Declination N 15° 35' East Dealer.

Examined and found to be correct.

A. V. Wadhams
Lieut
Navigator.

LOG of the UNITED STATES Steamer "Essex" 3d Rate,

Navy Yard, Brooklyn New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	Force.	Heel.	Leeway.	BAROMETER. Height in inches.	Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	Air, Wet Bulb.	Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.					S E.	1			29.90	74	72	73		b. c.	cumu	0	
1					"	1			29.90	74	74	73		"	"	0	
2					"	1			29.90	74	74	73		"	"	0	
3					"	1			29.90	74	73	73		b. cl.	"	0	
4					"	1			29.90	74	73	73		"	"	0	
5					S. W.	1			29.88	74	74	74		b. c.	cir. cumu	1	
6					"	1			29.88	74	74	74		"	cumu	0	
7					"	1			29.88	74	74	74		b. c.	"	0	
8					"	1			29.88	74	74	74		"	"	0	
9					"	1			29.89	74	74	74		b. c. d.	"	0	
10					"	1			29.89	74	74	74		"	"	0	
11					"	1			29.86	75	74	73		"	"	0	
Noon.					"	1			29.86	75	74	73		b. c.	"	1	

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 400 " 285 "

P. M.									
1				S W.	2	29.86	76	b. c.	cumu 6
2				"	2	29.84	76	"	" 6
3				"	3	29.83	74	"	" 2/6
4				"	3	29.83	74	"	" 6
5				"	3	29.82	74	b. cl.	cir. cumu 5
6				N. W.	2	29.83	74	"	" 5
7				"	1	29.81	74	"	" 4
8				Calm	0	29.81	74	"	" 4
9				"	0	29.81	74	b.	cir. str. 9
10				"	0	29.83	74	"	" 9
11				"	0	29.84	75	b. c.	" 9
Mid.				"	0	29.84	76	"	" 8

under the command of Commander T. F. Jewell, U. S. Navy,

Tuesday July 27th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From Meridian to 4 A. M.

Cloudy. Light rain at intervals. Light breeze from S.E.

A. F. Lechtman
Ensign U.S.N.

From 4 to 8 A. M.

Cloudy with light rain last two hours. Light S.W. airs. Received and issued to crew 76 lbs fresh beef and vegetables each and 136 lbs of fresh bread. P.A. Paymaster H. R. Smith returned from leave.

H. C. Gearing
Lieut U.S.N.

From 8 A. M. to Meridian

Drizzling rain. Clearing up last hour. Light airs from S.W. At 11, a salute of 11 guns was fired from Navy Yard battery. At 1.30 went to quarters and inspected divisions. The following men were absent without leave A. B. Fleming apk J. Fernandez O.S. G. F. Collins P.M. and J. L. Lippincott apk. By order of Comdg Officer F. Collins P.M. was declared a deserter. By order of the Comdg Officer D. J. Clifford apk was placed in solitary confinement for five days on bread and water for leaving ship without permission. The Comdg Officer and Navigator left the ship on duty to inspect the Electric Plant of the steam yacht "Electra." Received in Instruction Department Stores.

F. J. Boomer
Naval Cadet U.S.N.

From Meridian to 4 P. M.

Weather pleasant. Light to gentle breeze from S.W. at 1 PM loosed sail. A few Navy Yard workmen employed on board at 4 furled sail. Ensign Haggatt returned from leave.

A. F. Lechtman
Ensign U.S.N.

From 4 to 8 P. M.

Partly cloudy and pleasant. Light passing showers first hour. Light airs from S.W. to West. At 7, mustered at quarters and taken the crew for abandoning Ship.

F. J. Boomer
Naval Cadet

From 8 P. M. to Midnight

Clear and calm. E. Moreau Las, returned on board eight days overtime.

A. F. Lechtman
Ensign U.S.N.

Morns Declination N 17° 32' Last Quarter.

Examined and found to be correct.

L. Maynadier
Lieut

Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Navy Yard, Brooklyn New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.					West	1			29.86	70	74	73		b.	nmc	10	
1					"	1			29.86	74	73	72		"	"	10	
2					"	1			29.86	74	73	72		"	"	10	
3					"	1			29.85	74	73	72		"	"	10	
4					N. W.	1			29.86	74	74	71		"	"	10	
5					"	1			29.86	74	74	71		"	"	10	
6					"	1			29.86	74	74	71		"	"	10	
7					"	1			29.86	74	74	72		"	"	10	
8					"	1			29.86	75	74	72		"	"	10	
9					"	2			29.95	75	74	75		"	"	10	
10					"	2			29.95	76	74	75		"	"	10	
11					N.	2			29.94	78	78	78		"	"	10	
Noon.					"	2			29.94	78	78	78		b. c.	cir cum	7	

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, tons 4 lbs.

Coal remaining on hand at Noon, 3 " 2175 "

P. M.						
1	North	1	29.91	82	82	80	b. c.	cumulus	6
2	"	2	29.91	82	82	80	"	cir cum	6
3	W. & W.	2	29.91	82	82	80	"	"	8
4	"	1	29.88	83	82	81	"	"	8
5	"	2	29.88	83	81	80	"	"	8
6	"	2	29.90	82	81	79	"	"	8
7	"	2	29.91	80	81	77	"	"	6
8	"	3	29.91	80	81	77	"	"	5
9	"	2	29.95	79	78	76	"	"	5
10	S. W. by S.	2	29.95	77	77	76	b. c.	cir cum	6
11	S.	2	29.95	77	77	76	"	"	6
Mid.	"	2	29.95	77	76	75	"	"	8

under the command of Commander T. F. Jewell, U. S. Navy,

Wednesday July 28th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends at A. M.
Clear and pleasant. Light breeze from W.

Hugh Rodman
Ensign U.S.N.

From A. to 8. A. M.
Clear & pleasant. Light airs from N. W. Received in Pay. Dept. 170 lbs fine beef, 170 lbs vegetables and 136 lbs bread. At 8, loosed sail to a bobstay.

T. F. Downes
Naval Cadet U.S.N.

From 8. A. M. to Meridian
Clear and warm. Light breeze from N. and N. W. At 9.30 inspected at quarters. Divine service at general quarters. Cast loose as follows. 1st Div 7 05" 2d 5 20" 3d 5.15" 4th 3.15" 5th 3.15" Engrs 2 50", Marines 1 40. A few Navy Yard workmen engaged on board.

C. A. Deichler
Ensign U.S.N.

From Meridian to 4 P. M.
Clear and pleasant. Light breeze from N. and W. Filled the two starboard water tanks with water from Navy Yard pier plug.

Hugh Rodman
Ensign U.S.N.

From 4. to 8. P. M.
Clear and pleasant. Light breeze from Guard. At 6. to muster at quarters.

A. H. Dearborn
Ensign U.S.N.

From 8. P. M. to Midnight
Clear & pleasant. Light breeze from S. and W. Lieut. A. O. Rogers U.S.N. returned from leave of absence.

Hugh Rodman
Ensign U.S.N.

Moons Declination N. 18° 39' Last Quarter

Examined and found to be correct.

F. V. Wadhams.
Lieut. and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Navy Yard, Brooklyn New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1					S.W.	2			29.96	64	65	64		h.	nmc	10	
2					"	2			29.96	64	65	64		"	"	10	
3					"	2			29.98	64	64	63		"	"	10	
4					"	1			29.98	64	64	63		"	"	10	
5					"	2			29.98	64	64	63		b.p.	"	10	
6					"	1			29.98	64	65	64		"	"	10	
7					"	1			29.98	64	78	76		b.c.	cir	9	
8					"	2			29.98	64	78	76		"	"	8	
9					N.W.	2			30.02	64	80	78		"	"	8	
10					"	2			30.02	64	80	78		"	"	8	
11					S.W.	2			30.02	64	80	78		"	cmm	8	
Noon.					"	1			30.02	64	81	79		"	"	8	

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, tons 4 lbs.

Coal remaining on hand at Noon, 3 " 1125 "

P. M.								
1			S.S.W.	2	30.02	82	b.c.	cmm 8
2			S.W. by S.	2	30.02	82	"	" 8
3			"	2	30.02	82	"	" 8
4			"	2	30.00	82	"	cir cmm 8
5			S.	1	29.96	84	"	" 6
6			"	1	29.96	84	"	" 6
7			"	1	29.94	83	"	" 6
8			"	1	29.94	82	"	cmm 6
9			[illegible]	1	29.96	83	"	nmc 10
10			"	3	29.95	81	"	" 10
11			"	3	29.95	81	"	" 10
Mid.			"	3	29.95	81	"	" 10

under the command of Commander T. F. Jewell, U. S. Navy,

Thursday July 29th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Cutter at A. M.
Clear, cool and pleasant. Light breze from S.W.
E. D. Galloway
Lieut U. S. N.

From 4 to 8 A. M.
First half of watch hazy. Last half clear and pleasant. Light wind from S.W. At 6.30 sent light sails and crossed light yards.
F. T. Arnold
Ensign U.S.N.

From 8 A. M. to Meridian
Clear, wind from N.W. and S.W. in gusts breezes. Mustered and inspected crew at quarters at 9.30 and found the following names being absent without leave A.B. Schuing app. J. Fernandez O.S. and J. D. Lippincott app. Transferred to the U. S. S. "Vandalia" with bags hammocks and necessary papers R. Samuel Sea Gr. Hy. Hudson Sea. Gr. Exercised crew at Fire Quarters at 10 AM. A.B. Schuing app. having been absent two days was by order of the Executive Officer declared a deserter. Received in Equipt Dept Sea Chs Spunk. P.A. Engr J. H. Barton, was granted seven days leave of absence from this date.
Hugh Rodman
Ensign U.S.N.

From Meridian to 4 P. M.
Fair and warm. Light breze from S.W. by S. Navy Yard workmen on board. Overhauled life buoys and found them in good order except as to attaching fittings. Receives from Barracks J. H. Emery P.M.
E. D. Galloway
Lieut U. S. N.

From 4 to 8 P. M.
Clear. Light breze from South. Sent down top gallant and royal yards at sunset. Mustered at quarters and found same absentees as at A.M. quarters.
Hugh Rodman
Ensign U. S. N.

From 8 P.M. to Midnight.
Clear and warm. Gentle breze from South shifting to West.
E. D. Galloway
Lieut U.S.N.

Long Island Harbor N 18° 29' East Quarter.

Examined and found to be correct.

E. T. Graham.
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex" 3d Rate,

Navy Yard, Brooklyn New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.															cir		
1					S.W.	3			29.96	78	78	76		b.c.	cum	8	
2					"	3			29.96	78	78	76		b.	"	8	
3					"	3			29.96	78	78	76		"	"	8	
4					"	3			29.96	78	78	76		b.c.	"	8	
5					"	2			29.99	77	77	76		"	"	8	
6					"	1			29.99	77	77	77		"	"	5	
7					"	1			30.01	77	77	76		"	"	4	
8					"	1			30.01	78	77	77		"	"	8	
9					"	2			30.01	78	79	78		b.c.o.	"	6	
10					"	2			30.02	78	80	79		"	"	4	
11					"	2			30.02	80	81	80		"	"	4	
Noon.					"	2			30.02	81	82	71		"	"	4	

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, tons 4 lbs.

Coal remaining on hand at Noon, 3 " 1325 "

P. M.							
1	S.W.	2	30.01	83	82	b.c.	cir cum 2
2	"	2	30.02	83	83	"	" 1
3	S. by E.	2	30.02	84	83	b.c.p.	" 1
4	"	1	30.01	84	84	"	" 1
5	S.	1	30.01	83	84	b.c.	" 1
6	"	1	29.99	83	84	"	" 1
7	"	2-6	29.99	83	84	o.c.	cum clr 0
8	"	2-6	29.98	79	78	cl.tg.	" 0
9	S. E.	0-2	30.01	79	76	ocdt.	mist 0
10	W.	1	30.01	79	78	b.c.	clr 8
11	"	1	30.01	79	78	"	" 8
Mid.	"	1	30.01	79	78	c	cir cum 0
	"						

under the command of Commander T. F. Jewell, U. S. Navy,
Friday July 30th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends 4 A.M. Clear and pleasant. Gentle breeze from S.W.
H. H. Gearing
Lieut U.S.N.

From 4 to 8 A.M. Clear. Light breeze from S.W. Received in Pay Dept. 170 lbs fresh beef, 140 lbs vegetables and 137 lbs fresh beef. Crossed D.M. Jetty & Royal Yards.
Hugh Rodgers
Ensign U.S.N.

From 8. A.M. to Meridian. Fair and warm. Light breeze from S.W. at 9.30 mustered at quarters. absentees J. O. Lippincott apptd and J. Fernandez C.A.G. at 9 A.M. went to General Quarters. Times of casting loose 1st div 4'35", 2d 6'05" 3d 6'15", Nav 2'30, Powd. 4'35" Engrs 2'25", Marines 1'50". Navy Yard workmen on board. at 11 an officer from the Brazilian Frigate paid an official visit to Comdg officer.
C. D. Galloway
Lieut U.S.N.

From Meridian to 4 P.M. Warm and fair. Light breeze from S.W. & S.S.E. A light rain shower at 2 P.M. Transferred J. A. Coffee Pt. M. to U.S. Naval Hospital. Navy Yard workmen on board. Naval Cadet Solon Arnold left the ship on four (4) days leave of absence.
H. H. Gearing
Lieut U.S.N.

From 4 to 8 P.M. Warm and dewy. Light breeze from South first part, passing squalls from S. with thunder and lightning last hour. at sunset sent down topgallant and royal yards. At 5.30 mustered at quarters.
C. D. Galloway
Lieut U.S.N.

From 8 P.M. to Midnight. Fresh squalls from S.E. with rain first hour. Part of watch light-airs from West.
H. H. Gearing
Lieut U.S.N.

Moons Declination N. 17° 0' Last Quarter

Examined and found to be correct.

A. V. Wadhams
Lieut U.S.N. Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,
Navy Yard, Brooklyn New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.					Calm	0			30.01	78	74	76		o.cl.	cumb	0	
1					"	0			30.01	78	74	76		"	"	0	
2					"	0			30.01	78	74	76		"	"	0	
3					N.	2-3			29.99	78	74	76		b.cl.	cumu	2	
4					Calm	0			30.00	78	78	76		o.c.	"	1	
5					S.E.	1			30.01	78	76	75		o.c.r.	"	1	
6					N.	1-2			30.01	78	76	75		"	"	1	
7					N.W.	1-2			30.05	79	76	76		"	"	1	
8					N.E.	1-2			30.06	79	76	74		"	cumb	0	
9					S.S.E.	1			30.05	79	74	73		o.c.	"	0	
10					W.	1			30.06	75	74	73		o.c.r.	"	0	
11					Calm	0			30.06	76	76	73		o.c.	"	0	
Noon.																	

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, tons 4 lbs.

Coal remaining on hand at Noon, 3 " 925 "

P. M.										
1					W.	0-1	30.06	74	76	75	o.c.	cumb	0
2					"	0-1	30.05	74	74	76	b.c.	cu cumu	5
3					"	1	30.05	78	78	74	"	"	3
4					S.W.	1	30.04	78	78	78	"	"	4
5					S.E.	1	30.04	78	78	74	"	"	3
6					S.	2	30.01	76	76	74	o.c.	cu str	4
7					"	2	30.00	74	74	75	"	"	4
8					S.E.	1	30.00	73	74	73	"	"	4
9					"	1	30.04	74	73	73	b.	nmc	10
10					Calm	0	30.04	74	74	73	"	"	10
11					"	0	30.04	74	74	73	"	"	10
Mid.					"	0	30.04	74	73	73	"	"	10

under the command of Commander T. F. Jewell, U. S. Navy,

Saturday July 31st, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Until 4 A. M.

Overcast and cloudy until three when occasional light flashes lightning about horizon. Calm till last hour when gentle breeze came out from North. At 12 ock Corporal Halpine reported that at 11.50 P.M. he had found Private J. P. Ryan, sentry at brig, asleep on post and at 12.02 had relieved him without awaking by Private Mc Kenna. By order of the Executive Officer Smdg Pro tem placed Private A. J. Ryan under restraint to await action of Smdg Officer. Aneroid bar. 29.85 at end of watch.

Chas C. Rogers
Lieut U.S.N.

From 4 to 8 A. M.

Overcast and rainy. Calms and light airs from S. E. thence to N. and N. W.

E. G. Galloway
Asst Surgeon

From 8 A. M. to Meridian.

Overcast and rainy. Light airs from N. E. to S. S. E. and calm last hour. Signs of clearing at 12 o'c. At 9.30 mustered crew at quarters absentees without leave as follows: J. Lippincott app'd J. Ferndale C.A. Cleaned bilges. Navy Yard workmen at work on board.

W. H. Gearing
Lieut U. S. N.

From Meridian to 4 P. M.

Overcast clearing. Light airs from W. to S. W. Navy Yard workmen on board. Cutter with party from shore. F. J. Forshew
Naval Cadet U.S.N.

From 4 to 8 P. M.

Pleasant weather. Light breeze from South and S. E.

W. H. Gearing
Lieut U.S.N.

From 8 P. M. to Midnight.

Clear and pleasant. Calm. Bright starlight.

F. J. Forshew
Naval Cadet U.S.N.

Moons Declination N 14° 24' Last Quarter.

Examined and found to be correct.

A. V. Wadhams
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Navy Yard. Brooklyn New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1					Calm	0			30.05	74	74	73		b. c.	cir	7	
2					E.	1			30.04	73	73	72		"	"	8	
3					"	0-1			30.04	72	71	71		b. c. f.	"	8	
4					Calm	0			30.03	71	71	71		"	"	8	
5					"	0			30.02	70	71	71		"	"	7	
6					"	0			30.01	70	70	71		"	"	7	
7					"	0			30.00	73	71	72		"	"	7	
8					"	0			30.00	75	72	72		"	"	7	
9					E. by S.	1			30.04	76	73	72		b. c. g.	"	7	
10					"	1			30.04	75	74	73		"	"	7	
11					E. S. E.	1			30.03	76	76	74		b. c.	cir cum	8	
Noon.					S. S. E.	1			30.02	76	76	76		"	"	8	

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, tons 4 lbs.

Coal remaining on hand at Noon, 3 " 525 "

P. M.																	
1					S. of E.	1			30.01	77	77	76		b. c.	cir cum	7	
2					"	1			29.99	77	77	76		"	"	7	
3					S. E.	2			29.99	76	76	75		"	"	0	
4					"	3			29.98	76	75	75		o. c.	cum nimb	0	
5					"	2			29.98	76	74	74		o. c. d.	"	0	
6					"	2			29.89	75	74	74		"	"	0	
7					"	2			29.88	76	74	74		o. c.	"	0	
8					S.	2			29.86	75	74	74		"	"	0	
9					S. S. E.	1			29.85	76	74	74		o. c. f.	nimb	0	
10					"	1			29.85	75	74	74		"	cum	0	
11					"	2			29.80	75	74	74		"	nimb	0	
Mid.					"	2			29.80	75	74	74		"	"	0	

under the command of Commander T. F. Jewell, U. S. Navy,
Sunday August 1st, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Ends 4 A. M.
Clear & pleasant. Calm with occasional Easterly airs.
H. N. Richardson
Ensign U.S.N.

From 4 to 8 A. M.
Foggy. Clearing towards end of watch. Calm. Found painted work thickly coated from smut, gas or other foul air from dock. Received 150 lbs fresh beef 100 lbs vegetables & 124 lbs soft bread.
Allen Manning,
Ensign U.S.N.
Lieutenant

From 8. A. M. to Meridian.
Partly cloudy, warm. Light airs from E by S. to E.S.E. at 9.30 the Comdg Officer inspected ship with crew at quarters and immediately after read "Articles for the better government of the U.S. Navy." Held General Muster. The following men were found absent without leave J. Fernandez O.A.Y., J. C. Lippincott apr, Wm Thompson C. in W. and C. Plunkett Lds. By order of Comdg Officer P. Gifford apr was released from confinement. By order of Comdg officer Private Ryan U.S.M.C. was returned to cell to await trial by Court Martial.
T. J. Boone
Naval Cadet U.S.N.

From Meridian to 4 P. M.
Weather pleasant. Cloudy last half of watch. Light to gentle breeze from S.E. & S.S.E.
Ralph Rodman
Ensign U.S.N.

From 4 to 8 P. M.
Overcast and cloudy with light drizzling rain. Light breeze from S.E. Wm Thompson C. in W. was brought on board overtime by the Post Marines for being intoxicated and smuggling liquor.
T. J. Boone
Naval Cadet U.S.N.

From 8 P. M. to Midnight.
Cloudy. Raining at intervals. Light breeze from S.S.E.
Ralph Rodman
Ensign U.S.N.

Horus Declinatus N 10° 46' New Moon.

Examined and found to be correct.

A. V. Wadhams.
Lieut U.S.N. Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Navy Yard, Brooklyn New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1					S.S.E.	2			29.76	74	72	67	65	o.c.	cumul	0	
2					W.S.W.	3			29.72	71	67	57	54	o.c.	"	0	
3					"	1			29.72	71	67	67	65	o.c.	"	0	
4					"	1			29.71	71	67	67	65	"	"	0	
5					N.W.	2			29.70	71	67	65	54	"	cumul	0	
6					"	1			29.70	71	67	65	54	"	"	0	
7					"	1			29.70	71	67	65	54	b.cs	cumul	1	
8					"	1			29.70	71	67	65	54	"	"	1	
9					"	2			29.60	79	78	74	74	"	"	2	
10					"	3			29.60	80	79	78	74	"	"	5	
11					"	3			29.60	80	79	78	74	"	"	8	
Noon.					"	5			29.50	80	79	78	74	"	"	4	

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, tons 4 lbs.

Coal remaining on hand at Noon, 3 " 125 "

P. M.									
1			W.N.W.	3		29.73	78	79	78	b.cs	cumul	4
2			"	4		29.72	78	79	78	"	cir	2
3			"	3		29.72	74	80	74	"	"	3
4			"	3		29.72	74	80	78	c.	nine	10
5			"	3		29.72	79	79	78	"	"	10
6			"	3		29.72	78	78	77	"	"	10
7			"	4		29.82	78	77	76	"	"	10
8			N.W.	4		29.76	74	73	71	"	"	10
9			N.	3		29.82	78	72	70	"	"	10
10			"	2		29.82	72	70	69	"	"	10
11			"	2		29.84	71	70	69	"	"	10
Mid.			"	1		29.84	70	70	68	"	"	10

under the command of Commander P. F. Harrell, U. S. Navy,
Monday August 2d, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences 2d Watch at 4 A.M.
Overcast, unsettled weather. Light breze from S.S.E. & W.S.W.
Hugh Rodman
Ensign U.S.N.

From 4 to 8 A.M.
Clearing. Warm. Light airs from N.W. at 8 crossed Dépôt and Royal Yards. Liberty party returned on board at 7.30 A.M. "Juniata" got underway and left Navy Yard.
F. Foote
Naval Cadet U.S.N.

From 8 A.M. to Meridian.
Cloudy. Gentle breze from N.W. at 9.30 inspected at quarters. They exercised at Cutlass Manual. Received in Pay Dept 500 lbs Coffee. A few Navy Yard workmen engaged on board.
A. T. Dechman
Ensign U.S.N.

From Meridian to 4 P.M.
Clear. Fresh breze from W.N.W. Stationed crew for Battalion Drill. Served out clothing. Lieut C.C. Rogers U.S.N. was detached from this vessel.
Hugh Rodman
Ensign U.S.N.

From 4 to 8 P.M.
Gentle to moderate breze from W.N.W. Abt. 40 remained at quarters.
A. T. Dechman
Ensign U.S.N.

From 8 P.M. to Midnight
Clear. Moderate breze from North. Jos. Kohler U.S.M. was brought on board by Marine from Navy Yard. 13 hrs overtime.
Hugh Rodman
Ensign U.S.N.

Hours Declination N 6° 28' West Mean.

Examined and found to be correct.

A. V. Wadhams Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,
Navy Yard, Brooklyn New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1					N. W.	2			29.82	74	36	66		C.	cirro	10	
2					"	4			29.80	74	26	56		"	"	10	
3					"	4			29.83	74	26	56		b.c.	cir	9	
4					N. W. by W.	4			29.84	74	16	36		C.	nmb	10	
5					N. W.	3			29.84	67	46	26		b.c.	"	10	
6					W. N. W.	4			29.86	67	46	46		"	"	10	
7					W. by N.	4			29.86	68	66	64		C.	"	10	
8					"	4			29.86	68	64	62		"	"	10	
9					N. W.	4			29.90	68	56	53		b.c.	cir cumb	8	
10					"	4			29.90	68	56	53		"	"	8	
11					"	4			29.90	69	66	64		"	"	7	
Noon.					"	4			29.89	69	64	65		"	"	7	

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "
Longitude by D. R. ° ' "
Latitude by observations of ⊙ ° ' "
Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.: Latitude by ° ' "
Longitude by ° ' "

Position at 8 P. M.: Latitude by ° ' "
Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, tons 4 1/2 lbs.

Coal remaining on hand at Noon, 2 " 1965 "

P. M.												
1					N. W.	3			29.89	74	98	69		b.c.	cir cumb	6	
2					"	2			29.89	74	06	68		"	"	6	
3					N. N. W.	2			29.89	74	06	68		"	"	4	
4					"	2			29.90	74	06	68		"	"	4	
5					N. W.	2			29.94	74	14	06	4	"	cir	8	
6					"	1			29.95	74	14	06	4	C.	nmb	10	
7					"	1			29.96	74	14	06	4	"	"	10	
8					"	1			29.98	74	14	06	4	b.c.	cumb	8	
9					"	3			29.99	74	14	06	5	"	"	8	
10					"	3			29.01	74	06	96	4	"	"	8	
11					"	3			29.03	74	06	96	4	"	"	8	
Mid.					"	3			29.03	74	06	96	4	"	"	8	

under the command of Commander T. F. Jewell, U. S. Navy,
Thursday August 3d, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends at A.M.
Clear, cool and pleasant. Light breze from N. W.
C. D. Galloway
Lieut U.S.N.

From 4 to 8 A.M.
Clear and cool. Moderate breze from N. W. to W by N. at 8, crossed T. Yard and Royal Yards. Received in Pay. Dept 60 lbs fresh beef, 150 lbs vegetables and 120 lbs bread.
A. F. Beckham
Ensign U.S.N.

From 8 A.M. to Meridian
Clear. Fresh breze from N. W. Hauled off & inspected crew at quarters at 9.30 found J. O. Hippisley absent and E. Trotter Las. absent without leave. Exercised crew at General Quarters and Battalion Drill. Received on board all of the ship's boats except the steam cutter.
Hugh Rodman
Ensign USN

From Meridian to 4 P.M.
Clear cool and pleasant. at 3 P.M. shifted berth to what next to Westward. Mechanics from Yard at work on board. Received from U.S.S. "Vermont" the following named men Gr. Saunders, Ch. Baker, Lauren Tollefsen (Seaman), Michael Chappel (I.C.F.) and P. Murray (B. Maker
C. D. Galloway
Lieut U.S.N.

From 4 to 8 P.M.
Clear. Light breze from N.W. Quit down T. Yard and Royal yards at sunset.
Hugh Rodman
Ensign U.S.N.

From 8 P.M. to Midnight
Clear, cool and pleasant. Light breze from N. W.
C. D. Galloway
Lieut U.S.N.

Noons Declination N 17° 51' New Moon

Examined and found to be correct.

A. F. Beckham
Lieut U.S.N. & Navigator.

LOG of the UNITED STATES Steamer "Essex", 30 "Rate,

Navy Yard, Brooklyn New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1					N.W.	2			30.036966					C.	nmb	10	
2					"	2			30.046966					"	"	10	
3					"	2			30.046964					"	"	10	
4					W.N.W.	2			30.046863					"		10	
5					N.W.	1			30.086863					"	"	10	
6					"	2			30.096963					"	"	10	
7					"	2			30.106866					"	"	10	
8					"	2			30.126966					"	"	10	
9					"	3			30.126967					b.c.	"	10	
10					"	2			30.126966					"	cir.	10	
11					"	2			30.126967					"	"	6	
Noon.					"	2			30.126967					"	cum	8	

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, tons 40 lbs.

Coal remaining on hand at Noon, 2 " 1565 "

P. M.						
1	N.W.	2	30.124169	R.c.	cum	6
2	"	2	30.144069	"	"	4
3	"	2	30.094142240	"	"	4
4	"	2	30.044142240	"	cir	3
5	"	2	30.084242240	"	nmb	3
6	"	2	30.094242240	"	"	3
7	"	2	30.084242240	"	"	4
8	"	2	30.124241240	"	cum	4
9	W.	0-1	30.134224169	R.	nmb	10
10	"	1	30.134144069	"	"	10
11	"	1	30.134144069	"	"	10
Mid.	"	1	30.134106968	"	"	10

under the command of Commander T. F. Jewell, U. S. Navy,
Wednesday August 4th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Until 4 A. M.
Clear and cool. Bright-starlight. Light-breze from N. W.

H. C. Gearing.
Lieut U. S. N.

From 4 to 8. A. M.
Clear. Moderate breze from N. W. Received in Pay Dept 150 lbs fresh beef, 150 lbs vegetables, 150 lbs fresh bread. Cadet Engr Dem Arnold returned from four days leave of absence. Issued 1 Gill to Royal Yards 4 8.

Ralph Rodman
Ensign U. S. N.

From 8. A. M. to Meridian
Clear and pleasant. Light-breze from N. W. At 9.30 went to General Quarters: 1st Div. 3-4", 2d 4-4", 3d 4-4", Nav. 4-1", Powd. 5-10", Engs 3-5" Marines 2-10". At 10.30 exercised at Fire Quarters. 1st Stream ready in 1'20" 2d 1'40" and 3d 2'10". Chas Trotter (Lab), was discharged from this ship and the Naval Service by reason of his own request and by order of Bureau of Equipt and Recty. Absent without leave J. C. Lippincott Act Apr and D. Dowling Act Machinist from Yard at work on board.

E. D. Galloway
Asst U. S. N.

From Meridian to 4 P. M.
Fair and pleasant. Light-N. W. breze. At 10 Summary Court met on board for trial of John Ryan (P.M.) adjourning at 2.30 to await action of revising authority. Ensign H. C. Poundstone Asst E. reported for duty in this ship. John H. Hutchings (Sm. Gr) was transferred to U.S.S. "Vandalia" by order of Bureau of E and R. Hoy Hudem (Sm. Gr) was received for duty from the same ship. At 3 P.M. "Vandalia" left Navy Yard in tow, and proceeded down East River. Navy Yard workmen at work on board.

H. C. Gearing.
Lieut U. S. N.

From 4 to 8 P. M.
Clear, cool and pleasant. Light-breze from N. W. At Summit sent down light yards.

E. D. Galloway
Asst U. S. N.

From 8 P. M. to Midnight
Clear, cool. Light-airs from East.

H. C. Gearing.
Lieut U.S.N.

Hours Deck Washing N 2°45' New Moon

Examined and found to be correct.

A. T. Williams
Lieut U.S.N. Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Navy Yard, Brooklyn New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1					W.	2			30.12	70	68	68		b.	cmc	10	
2					"	2			30.12	69	67	66		"	"	10	
3					"	1			30.13	70	66	65		"	"	10	
4					"	1			30.13	70	66	65		"	"	10	
5					"	1			30.11	66	65	65		"	"	10	
6					Calm	0			30.12	70	68	68		"	"	10	
7					N.N.W.	1			30.13	70	68	66		"	"	10	
8					"	1			30.14	70	69	68		"	"	10	
9					"	1			30.15	70	69	68		C.		10	
10					S.E.	2			30.16	71	71	69		"	"	10	
11						2			30.15	72	71	70		"	"	10	
Noon.					"	2			30.14	74	72	71		"	"	10	

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, "

Coal consumed during the preceding 24 hours, tons Hrs lbs.

Coal remaining on hand at Noon, 2 " 1165 "

P. M.													
1					S.W.	2			30.13	76	76	73	h.c.	cmc	4
2					"	2			30.11	78	74	73	"	cir cmc	4
3					S.	2			30.11	74	74	74	"	"	3
4					"	2			30.11	72	72	69	"	"	4
5					S.S.E.	2			30.10	76	76	74	b.c.	"	1
6					"	2			30.10	76	75	74	"	cmc nimb	2
7					"	1			30.10	74	74	73	C.	nimb	0
8					S.	1			30.10	74	74	72	b.c.	cmc	2
9					"	1			30.11	74	72	71	o.c.	"	2
10					W.	1			30.13	74	74	74	"	"	2
11					N.W.	1			30.14	74	74	74	o.c.f.r.	nimb	0
Mid.					N.E.	1			30.13	74	74	69	"	"	0

under the command of Commander T. F. Jewett, U. S. Navy,

Thursday August 5th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Ends 4 A. M.
Clear and pleasant. Light airs from West.

A. T. Dashiell
Ensign U. S. N.

From 4 to 8 A. M.
Mild and hazy. Calms. Light airs from N. E. & E. At 6.15 the "Atlanta" left the yard in tow of two tugs & stood up East River. At 6.40 the "Catalpa" returned to the yard. At 7, sent liberty party of 45 men on shore.

C. P. Galloway
Asst Surgn U. S. N.

From 8 A. M. to Meridian.
Clear & pleasant. Light breezes from S. E. At 9.30 exercised at quarters and then exercised at Fire Quarters Streams as follows, 1st 1.35 1.35 1.50 4th 2.55. Absentees without leave at muster S. Sibley App'd Sea. App'd. At 10.30 Navy Yard tug came alongside & during rest of watch engaged in moving ship to coal wharf. The following punishments have been awarded by order of Commander Commanding, viz: Wm. Graham (PM), leaving ship without permission and remaining absent 9 days 3 months restricted. D. O. Lippincott (App), overstaying leave 9 days, 5 days Solitary confinement, Bread & Water.

L. McGregory
Lieut U. S. N.

From Meridian to 4 P. M.
Cloudy & warm. Light breeze from S. to S. W. Engaged in securing ship to coal wharf. At 3 P. M. began coaling. Took aboard 63 tons during watch. Received aboard one Sounding machine.

C. A. T. Dashiell
Ensign U. S. N.

From 4 to 8 P. M.
Cloudy. Light breeze from S. & E. Continued coaling until 6.30 taking in in all 289 tons. Received in Equipt Dept one head awning. P. A. Engr J. K. Barton U. S. N. returned from leave.

L. McGregory
Lieut U. S. N.

From 8 P. M. to Midnight.
Cloudy. Light & variable airs. Rain showers during latter half of watch. Hands Yard plumbers engaged on main forces pumps.

C. A. T. Dashiell
Ensign U. S. N.

Noons Declination N 17° 0' New Moon

Examined and found to be correct.

F. P. Harrison
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Navy Yard. Brooklyn New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1					N. E.	3			30.136	64	66			b.c.d.	cu nim	4	
2					"	3			30.136	86	66			o.c.d.	cu nim	0	
3					"	3			30.116	86	64			o.c.r.	"	0	
4					"	3			30.116	86	466			"	"	0	
5					"	3			30.106	86	466			r.	"	0	
6					"	3			30.107	06	664			c.d.	cu nim	0	
7					"	3			30.107	06	466			"	"	0	
8					"	3			30.097	16	866			"	"	0	
9					"	2			30.127	06	968			o.c.	"	0	
10					N. E. by N.	2			30.127	16	968			"	"	0	
11					"	2			30.117	16	868			"	"	0	
Noon.					"	2			30.117	16	968			"	"	0	

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 540 gallons.

Water ———— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2460 "

Coal consumed during the preceding 24 hours, tons ~~for~~ lbs.

Coal remaining on hand at Noon, 72 " 316 "

P. M.																	
1					N. E.	2			30.12	16	969			b.c.r.	cu nim	3	
2					"	2			30.11	14	069			o.c.	"	3	
3					"	2			30.11	14	169			"	"	3	
4					"	2			30.10	14	069			"	"	4	
5					"	2			30.09	14	070			b.c.p.	cir	3	
6					"	2			30.09	14	070			b.c.	cu nim	0	
7					"	2			30.09	14	069			o.c.	"	0	
8					"	2			30.09	14	069			b.c.	"	3	
9					"	2			30.08	14	968			"	"	3	
10					"	1			30.10	16	968			"	"	3	
11					"	1			30.10	16	968			"	"	3	
Mid.					"	1			30.10	16	864			"	"	2	

under the command of Commander T. F. Jewell, U. S. Navy,

Friday August 6th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commenced and Until 4 A. M.

Cloudy, generally overcast. Cal. Occasional drizzling rain first part. raining latter part. Gentle breeze from N. E. by E. Barometer 30.13 to 30.11. Navy Yard workmen stopped working force pump at 12.15.

A. Townsdstone
Ensign U. S. N.

From 4 to 8 P. M.

Cloudy. Light rain first hour. Gentle breeze from N. E. Received in Pay Dept's and issued to mess the following fresh provisions, viz: 100 lbs beef, 70 lbs vegetables and 125 lbs bread.

H. A. Jewett
Lieut U. S. N.

From 8 A. M. to Meridian

Cloudy. Light breeze from N. E. by N. At 8.30 began coaling ship. Took on board 38 tons during watch. Receiving Ordnance & Navigation Stores. A few Navy Yard workmen engaged on board.

A. T. Mahan
Ensign U. S. N.

From Meridian to 4 P. M.

Generally overcast and cloudy. Light breeze from N. E. Barometer 30.12 to 30.10. Coaling ship. Took on board during watch 33 tons. Taking on board Navigation and Ordnance stores. Workmen from Departments of Navigation and Construction at work on board. Fitted platforms of boat gear & formed derrick.

A. C. Townsdstone
Ensign U. S. N.

From 4 to 8 P. M.

Cloudy. Light drizzling rain at intervals. Light breeze from N. E. at 5.30 stopped coaling, received on board 9 tons during watch.

A. T. Mahan
Ensign U. S. N.

From 8 P. M. to Midnight

Partly cloudy, Hazy. Cal. Light breeze to airs from N. E. Barometer steady.

A. C. Townsdstone
Ensign U. S. N.

Mons Declination N 10° 55' New Moon

Examined and found to be correct.

F. V. Wadhams.
Lieut & Nd Navigator.

LOG of the UNITED STATES — Steamer "Essex", 3d Rate,
Navy Yard, Brooklyn New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1					N. E.	1			30.09	70	68	67		b. c.	cir cumu	5	
2					N. E. by E.	1			30.09	70	67	66		"	"	6	
3					"	2			30.09	70	67	66		"	"	6	
4						2			30.09	70	67	66		"	"	4	
5					E. N. E.	3			30.08	68	67	66		"	"	2	
6					"	3			30.06	69	68	67		o. c.	cumu mist	0	
7						3			30.06	69	68	67		"	"	0	
8					N. E.	3			30.06	69	68	67		o. c. r.	mist	0	
9						2			30.06	41	69	68		o. r.	"	0	
10					E. N. E.	2			30.05	41	69	68		"	"	0	
11					"	3-4			30.04	71	68	64		"	"	0	
Noon.					"	3-4			30.04	70	68	67		"	"	0	

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "
Longitude by D. R. ° ' "
Latitude by observations of ⊙ ° ' "
Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "
Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "
Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 540 gallons.

Water Rec'd on board during the preceding 24 hours, 1080 "

Water remaining on hand fit for use at Noon, 3000 "

Coal consumed during the preceding 24 hours, tons 4 cwt lbs.

Coal remaining on hand at Noon, 140 " 651 "

P. M.							
1		N. E.	2	30.05	71	68	68	o. c. r.	mist	0
2		"	2	30.03	71	68	68	"	"	0
3		"	2	30.03	70	67	66	"	"	0
4		"	2	30.04	70	67	67	"	"	0
5		N. E. by N.	2	30.02	70	66	66	"	"	0
6		"	3	30.08	70	66	65	"	"	0
7		"	3-4	30.01	70	66	65	"	"	0
8		N. N. E.	3-4	30.01	70	66	65	"	"	0
9		N. E.	3-4	30.01	70	66	65	"	"	0
10		"	4	30.02	70	66	65	"	"	0
11		"	4	30.02	70	66	65	"	"	0
Mid.		"	4	30.02	70	66	65	"	"	0

under the command of Commander T. F. Jewell, U. S. Navy,

Saturday August 7th 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Unsettled A. M.
Partially clear. Light breeze from N.E. & E.

Hugh Rodman
Ensign U.S.N.

From 4 to 8 A. M.
Cloudy and hazy with light drizzling rain at intervals. Gentle breeze from N.E. & E.N.E. At 5.30 began and at 7.30 finished coaling, taking in 29 tons. Total quantity of coal taken in board 138 tons.

C.A. Gosling
Ensign U.S.N.

From 8. A. M. to Meridian
Cloudy with occasional rain. Light to moderate breeze from N.E. to E.N.E. Barometer 30.06 to 30.04. Receiving Navigation & Ord Emp. Instruction stores. Workmen from yard in Bos'n & Gunner's store at work on board. At 11.45, called all hands to muster & read sentence of G.C.M. in case of Private J.H. Ryan U.S.M.C., sentenced to be dishonorably discharged from U.S.M.C. for sleeping on post.

A.L. Brownstone
Ensign U.S.N.

From Meridian to 4 P.M.
Steady light rain. Fresh breeze from N.E. Lieut R.F. Walling U.S.N. reported for duty on board this vessel. Received on board 100 empty sea service bedding, cushions, awnings, spare oars, spars & boat hooks, spare lumber in Equipt. Dept. Four (4) Jibs hard die in Nav. Dept. Stores in Equipt. Dept. Sent down Flying & Royal Yards & Lower Flying Masts. Navy Yard hands at work on board.

Hugh Rodman
Ensign U.S.N.

From 4 to 8 P.M.
Continual rain. Light to moderate breeze from N.E. by N. & N.N.E. Squally latter part. Barometer generally steady. Getting Engr. Stores on board. By order of Surg. Officer, Thos. Broderick (Sea) was placed in double irons for security to Force Lock of Medical Store room. Private J.H. Ryan U.S.M.C. was transferred to Marine Barracks at Yard for discharge, according to sentence of G.C.M. Sent a liberty party on shore from quarters for muster at 7.30. absent without leave J.H. Green apr, C.A. Gosling apr, Wm. Richards apr, a foreman apr & M.C. Evelyn G.T.C.

A.L. Brownstone
Ensign U.S.N.

From 8. P.M. to Midnight
Rainy, disagreeable weather. Fresh breeze from N.E.

Hugh Rodman
Ensign U.S.N.

Examined and found to be correct.

Noons Declination S 14° 0' First Quarter Sent

S.T. Wagner
Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Navy Yard, Brooklyn, New York

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1					N. N. E.	4			30.02	70	64	65		o.c.r.	nimb	0	
2					"	4			30.02	70	64	65		b.c.	"	4	
3					N.	3			30.02	69	65	64		"	"	6	
4					"	3			30.05	68	65	63		"	"	8	
5					"	2			30.08	68	65	63		"	cir cumu	8	
6					"	2			30.12	68	65	62		"	"	8	
7					N. W.	2			30.15	68	66	64		"	"	8	
8					N. N. W.	2			30.18	69	68	64		"	"	8	
9					"	2			30.20	71	70	64		h.	"	8	
10					"	2			30.22	71	70	64		"	"	8	
11					"	2			30.23	72	71	68		b.c.	cumu	8	
Noon.					"	2			30.24	72	72	68		"	"	4	

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "
Longitude by D. R. ° ' "
Latitude by observations of ⊙ ° ' "
Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "
Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "
Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 520 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2480 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 140 " 251 "

P. M.																	
1					N.	1			30.26	73	69	69		b.c.	cumu	6	
2					W.	2			30.26	74	74	70		"	"	4	
3					S.	1			30.26	75	75	71		"	"	8	
4					"	1			30.26	74	74	72		"	"	8	
5					"	2			30.26	74	74	73		"	cir	8	
6					S. S. W.	2			30.26	76	76	74		"	"	6	
7					S.	2			30.25	74	74	73		"	cumu	4	
8					"	2			30.26	74	73	68		"	cir cumu	4	
9					S. W.	2			30.30	73	69	68		"	"	4	
10					"	2			30.32	73	72	68		"	"	4	
11					W. S. W.	2			30.32	73	72	68		"	"	4	
Mid.					"	2			30.34	73	70	68		"	"	4	

under the command of Commander T. F. Jewell, U. S. Navy,

Sunday August 8th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Ends H. A. M.

Overcast first hours, then clear, cool and pleasant. Gentle breeze from N. N. E. and N.

E. D. Galloway
Lieut U. S. N.

From H. to 8. A. M.

Clear, pleasant weather. Light breeze from North to N. W. Barometer 30.08 to 30.18. Received in Pay Dept. for issue to crew, 156 lbs each of fresh beef and vegetables and 125 lbs Bread. Liberty men came on board.

H. Poundstone
Ensign U. S. N.

From 8. A. M. to Meridian

Clear and pleasant. Light breeze from N. N. W. Hoisted and inspected ship with crew at quarters at 10. A.M. Found following named men absent without leave J. Greene app, J. A. Lessegang app, Wm. Richards app, A. H. Forman app, J. Humphrey app, F. Buchanan app, G. Madison app, S. Sumner app, J. A. Winters app, W. O. Lamb app, M. J. McLoughlin app, J. Welch app, A. Barrett app, J. F. Cummings app, W. F. Fink app, Wm. Howard 2 C. F. and J. Daley Las. The following stores from the Medical Dept. were found missing, having been stolen after a forced entrance had been made into the Medical store-room, namely: 1 bottle of Brandy, 4 bottle Whiskey, 2 bottles Port & 1 Bottle Ale.

Ralph Rodman
Ensign U. S. N.

From Meridian to 4. P. M.

Clear and warm. Light breeze backing from N. to E.

E. D. Galloway
Lieut U. S. N.

From 4. to 8 P. M.

Clear and pleasant. Light breeze from E. and N. Sent down T. Gallt Mast and sent them up again, left them housed. Furled sails at 5.40.

Ralph Rodman
Ensign U. S. N.

From 8. P. M. to Midnight

Clear and pleasant. Light breeze from W. S. W. At 11 P.M. J. A. Lessegang app, Wm. Richards app returned on board 40 hrs overtime and J. A. Winters app 16 hours and W. O. Lamb app 17 hours overtime.

E. D. Galloway
Lieut U. S. N.

Moons Declination 9 16' 39 First Quarter

Examined and found to be correct.

A. V. Wadhams
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d "Rate,
Navy Yard, Brooklyn New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	Force.	Heel.	Leeway.	BAROMETER. Height in inches.	Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	Air, Wet Bulb.	Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.					S.W.	2			30.36	40	40	64		h.	nme	10	
1					"	2			30.38	69	69	64		b.c.	cir	9	
2					"	2			30.37	68	69	66		"	"	9	
3					"	2			30.37	68	68	66		"	cimi	4	
4					S"E.	1			30.36	69	68	65		"	cir	9	
5					"	1			30.34	41	68	64		"	"	9	
6					W.S.W.	2			30.43	42	69	64		"	nmi	10	
7					"	2			30.43	41	40	67		"	"	10	
8					S.W.by.W.	1			30.45	42	42	40		b.z.	"	10	
9					S.S.W.	1			30.45	43	44	42		h.	cir	4	
10					"	2			30.46	43	46	43		b.z.	cimi	8	
11					"	1			30.46	43	46	43		"	"	8	
Noon.																	

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ' "
Longitude by D. R. ° ' "
Latitude by observations of ⊙ ° ' "
Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.: Latitude by ° ' "
Longitude by ° ' "

Position at 8 P. M.: Latitude by ° ' "
Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 500 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1980 "

Coal consumed during the preceding 24 hours, tons 00 lbs.

Coal remaining on hand at Noon, 139 " 2091 "

P. M.														
1					S.W.	3			30.45	43	43	43	h.c	cir cimi	9	S.
2					"	3			30.45	46	44	44	"	"	8	"
3					"	3			30.45	45	46	42	"	"	9	"
4					S"by.W.	3			30.45	45	46	41	"	cir	9	"
5					S.	3			30.44	46	45	41	"	"	8	"
6					"	4			30.42	45	45	41	"	"	8	"
7					"	4			30.42	43	42	69	"	"	8	"
8					"	4			30.42	42	42	69	"	"	9	"
9					S"by.W.	2			30.42	44	41	69	"	"	9	"
10					"	2			30.42	44	41	69	"	"	9	"
11					S"W.	2			30.41	44	41	69	c.	nmi	10	"
Mid.					"	2			30.41	44	41	69	"	"	10	"

under the command of Commander T. F. Jewett, U. S. Navy,
Monday August 9th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

(Form No. 13.)

Stores Received on board Aug 9/86
mer. to 4 P.M.

ORDNANCE ~~RETURN.~~

(For Commanding Officer—Paragraph 14, page 5, Part III, Ordnance Instructions.)

LIST of Ammunition, Fireworks, and Laboratory Stores supplied to the U. S. S. Essex & Kate

KIND OF CHARGES.	NUMBER OF CHARGES.	POWDER TANKS. 200	150	100	50	Total	HISTORY OF POWDER.
POWDER.							
8" M.L.R. 30 lbs	5	1				1	Dupont Hegd 1873, I.V. 1450, P 24400
9" "	13	19					" Cumm 1870 " 1464
9"	13	21	3		1	4	Hazard " " " 1440
9"	10	33					" " " " "
9"	10	282	20		20		Dupont " " " 1464
9"	10	45					Schaghticoke 1874 " 1098 P 14200
3in B.L.R. 12 oz	59						" " " " " "
" " 12 "	41			2	2		Dupont " 1870 " 1464
12 Pdr Light 10 "	59						" " " " "
12 " " 10"	41			1	1		Schaghticoke " 1874 " 1098 P 14200
60 " 6 lbs	150	5			5		" Rifle 1874 1055, 15400
9" Shell	3 " 168	3			3		Unknown Shell
60 Pdr "	2 " 30			1	1		do
3 in "	5 " 10			1	1		do
Priming Spare Tanks	5" 2			1/4	1/4		do
		32	5	6	43		
TOTAL.....							

H. E. Gearing
Lieut U. S. N.

at 6.15 cast off moorings steamed to dischorage off Flagpole Ellis Is Crashing sent up T yet masts.

Hugh Rodman
Ensign U. S. N.

W. at 8.30 went down ction Dept at work m distin.

D. Galloway
Lieut U. S. N.

Ends of ebb tide at 12 Quadrochim & Equinox came alongside and munition & Ordnance at 2 at Navy Yard moored bet. Big left store-room. The following A. H. Foreman app. Cott Funk app & J. Sales Lds.

H. E. Gearing.
Lieut U. S. N.

Completed towing ammu s Is. While took the towed her back to ship ctive. D. Bonnell app, lours routine. at 7.3

D. Galloway
Lieut U. S. N.

Bright moonlight.

H. E. Gearing.
Lieut U. S. N.

T. J. Wadham.
Navigator.

Mons Dielunatim 9 18° 0' First Quarter.

LOG of the UNITED STATES Steamer "Essex" 3d Rate,

Navy Yard, Brooklyn New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.					S W	2			30.36	70	70	64		L.	nme	10	
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
Noon.																	

Course and distance made good since p

Position at Noon: { Latitude by D. / Longitude by D / Latitude by obs / Longitude by cl

Position at 8 a. m. { Latitude by / Longitude by

Position at 8 P. M. { Latitude by / Longitude by

Current during the time, kr

Variation of the Compass by Amplitu

Variation of the Compass by Amplitu

Variation of the Compass by Azimuth

Variation of the Compass by Azimuth

Water expended during the preceding

Water ——————— durin

Water remaining on hand fit for use at

Coal consumed during the preceding 2

Coal remaining on hand at Noon,

P. M.																	
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11					S W	2			30.41	74	74	69		C.	nme	10	"
Mid.					"	2			30.41	74	74	69		"	"	10	"

2

PROJECTILES.

CLASS OF GUN.	SHOT.	SHELL.	SHRAPNEL	GRAPE.	CANISTER.	REMARKS.
8" M.L.R.		100				Short Cutter, Loaded Per
Do		10				Battering, "
9" D.B.		92				" 5"
Do			40			Loaded Bormann Fuze
Copar B.C.R.		90				Expanded M.L.R Loaded Per
" "		30				14 B.C.R, 16 Expanded M.L.R Empty
3in "		65	65			Empty
12 Pdr Light		18	54			Loaded R. F.
Do					32	
	11	Do Ammunition Chests Empty				
	30	Copar Buster Shell Bags, empty				
	8	Bormann Fuze Cutters				
	1	Do " "				
	19	Do Keys				

under the command of Commander T. F. Jewell, U. S. Navy,
Monday August 9th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

LABORATORY STORES.

Primers.			Vent Closing Primers	Fuzes.					Torpedo Fuzes.		
Quill.	Friction.	Quill Friction		Navy, Spare	Percussion.	Bormann.	Concussion.		Mechanical.	Electric.	Insulated wire.
Fer. C	Brass							Boxer			
				6"							
2200	400	400	68	168		5		85			
Boxes	Boxes	Boxes		10"							
4 Kegs	1 Lab'y	9 in		9				Lab'y			
				15"							
2 Lab'y		1 Lab'y		9							
				20"							
				9							
				3 Lab'y							

SMALL-ARM AMMUNITION.

Cartridges.				Revolver percussion caps	Torpedoes.	
Metallic, ball, cal .50.	Metallic, blank, cal. ~~.50~~ .45	Revolver.	Pistol, metallic, ball.		Ship.	Boat.
Lowell Small arm attch.	Winchester					
1000	1350					
1 Box	2 Boxes.					

Noons Dieluation 9 1886 First Quarter.

H. L. Gearing
Lieut U. S. N.

6 to 8 cast off mooring
steamed to dischorage off
Flagpole Ellis Id bearing
sent up T & F masts.

Hugh Rodman
Ensign U. S. N.

W. at 8. 30 sent down
ctim dep't at work
cm distin.

D. L. Galloway
Lieut U. S. N.

Ends of ebb tide at 12.
Contractors Engineers
came alongside and
munition & Ordnance
. at 2 at Navy Yard
moved list. Rig left
store-room. The following
A. H. Foreman app'd Cpt Tuck
app'd J. Sales Lds.

H. L. Gearing,
Lieut U. S. N.

Completed towing ammu
is No. While took the
stood her back to ship
ctive. D. drunk app,
hours routine. at 7.3

D. Galloway
Lieut U. S. N.
Bright moonlight.

H. L. Gearing,
Lieut U. S. N.

T. J. Washburn.
Navigator.

under the command of Commander T. F. Jewett, U. S. Navy,
Monday August 9th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Received in Destruction Dept
1 doz Hammock Hooks Rec'd in
Paymasters Department
600 lbs Salt Beef
Pork 600 lbs
480 lbs Corned Beef
480 " Ham
480 " Fish
480 " Tomatoes
1008 " Coffee
188 " Tea
392 " Flour
1648 " Sugar
1000 " Tobacco
760 " Soap
300 " Candles
10 Mattresses
20 Blankets
2 Brass Cap Sticks
2 Bales Socks
2 do Handkerchiefs.

Mus. to 4 h. m. of Aug 9th 1886.

W. B. Gearing
Lieut U. S. N.

At 6.15 cast off mooring & steamed to discharge buoy. Flag pole Ellis Is bearing SW. Sent up T. G. t. masts.

Hugh Rodman
Ensign U. S. N.

At 8.30 went down to Destruction Dept at work as per station.

J. D. Galloway
Lieut U. S. N.

At 12 Ended ebb tide at 12 noon. Destruction Dept Engineers came alongside and received ammunition and Ordnance stores at 2 at Navy Yard Dock. Received last. Hauled off & stowed in store-room. The following officers & men joined ship: A. H. Foreman app. 1st Class Fireman app. J. Sales, Cook.

W. B. Gearing.
Lieut U. S. N.

At 4. Completed stowing ammunition &c. While at the Navy Yard received on board 2 Ordnance Engineers & 2 Machinists. At 7.30 proceeded to sea. Under steam & sail. Set courses, royals & topgallant sails.

J. D. Galloway
Lieut U. S. N.

At 12. Bright moonlight.

W. B. Gearing.
Lieut U. S. N.

Mons Dilucatum 9 1886 First Quarter.

T. F. Jewett
Navigator.

under the command of Commander T. F. Jewell, U. S. Navy,
Monday August 9th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Stores Received in Engineers Department Aug 9th 1886.

One Spare Feed Pump.	24 Flat Files
One " Bilge " Valve	24 ½ Round do
Two " Pump Rods	3 Triangular do
201 lbs Asst Flat Irons	53 lbs 9/16" Sheet Gum
130 " " Round "	2 " Ground Glass
127 " " Square "	6 Hack Saw Blades
125 " " Iron Pipe.	3 Axe Handles
55 Bricks	12 Coal Pick Do
2 Gallons Japan Dryer	6 Hammer do
145 lbs Red Lead	2 Hatchet do
200 " White "	2 Sledge do
50 " " Zinc	2 Sledge do
205 " Iron Bolts & Nuts	18 Lamp Hooks
4 " Borax	1 Price Indicator Cord
2 Dust Brushes	18 lbs Marline
12 Paint do	12 Oil Cans
4 Painters do	6 " Funnels
2 Sash do	200 lbs Hemp Packing
2 Scrub Brushes	40 " Cotton do
24 Whitewash do	8 Paint Pots
1 Ream Emery Cloth	191 asst Pipe Fittings
8 Sq. Files	10 Globe Valves

Mar. to 4 P.M.

H. B. Gearing
Asst U. S. N.

At 6.15 cast off mooring steamed to discharge off Flagpole Ellis Id bearing sent up T gaff masts.

Hugh Rodman
Ensign U. S. N.

W. at 8.30 sent down victim & pt at work on victim.

D. Galloway
Asst U. S. N.

M. Ends of ebb tide at 12 in Entrenchment Engineers came alongside and ammunition & Ordnance &c. at 2 at Navy Yard moored as last. Hugh left store-room. The following: A. H. Foreman app. with Tools & app'd J. Sales Labr.

H. B. Gearing.
Asst U. S. N.

M. Completed towing ammunition &c. While took the Govt tow boat her back to ship Electric. D. Dunne app. 6 hours overtime. at 7.25

D. Galloway
Asst U. S. N.

W. Bright moonlight.

H. B. Gearing.
Asst U. S. N.

Moons Declination 9 18° 0' First Quarter.

W. T. Wadhams.
Navigator.

LOG of the UNITED STATES Steamer "Essex" 3d Rate,

Navy Yard, Brooklyn New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Sail.	Leeway.	BAROMETER. Height in inches	BAROMETER. Ther. att'd.	TEMPERATURE. Dry bulb.	TEMPERATURE. Wet bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Amt. of Clear Sky, in 10ths.	Rate of the Sea.
A. M.																	
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
Noon.																	

Course and distance made good sin

Position at Noon: { Latitude by / Longitude b / Latitude by / Longitude b

Position at 8 a. m. { Latitude by / Longitude b

Position at 8 P. M. { Latitude by / Longitude b

Current during the time,

Variation of the Compass by Amp

Variation of the Compass by Amp

Variation of the Compass by Azir

Variation of the Compass by Azir

Water expended during the prece

Water ——————— t

Water remaining on hand fit for u

Coal consumed during the precedi

Coal remaining on hand at Noon,

P. M.																	
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11					S. W.	2			30.41 7 47 164								
Mid.					"	2			30.41 7 47 169		"			"	"	10	"

20 lbs Pumba yo
100 Boiler Rivets
12 Thermometers
12 do (Salinometer)
21 Sheets Tin
12 Ft 3/4" Rubber Tubing
40 lbs Washers
21 " Asst Wire
50 Ft 2 1/2" Hose
50 " 1 1/2" do
1 Hydraulic Jack
2 Screw Jacks
50 lbs Iron Boring
20 Gals Black Varnish
40 " Boiled Oil
20 " Turpentine
2 lbs Lamp Black
160 " 1" Asst Gum
20 " Asst Brass
1 Steel Shaft Coupling
31 gals Sperm Oil
12 Cape Chisels
12 Flat do
2 Drifts
12 File Scrapers
1 Expanding Core 2 1/4"
3 Chipping Hammers

under the command of Commander T. F. Jewett, U. S. Navy,
Monday August 9th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Unties H. A. M.
Cool and pleasant. Light breeze from S. W.

H. B. Gearing
Lieut U. S. N.

From H. to 8. A. M.
Clear. Light breeze from S.E. & S. & S.W. & W. at 6.15 cast off mooring from Navy Yard wharf & hauled boom of Navy Yard tug steamed to Quarantine off Ellis Is. at 7.10 anchored in 7 fms of water 30 fms chain. Flagpole Ellis Is bearing W.N.W. Bartholdi Statue S.W. by W. Robbins Is S.W. by S. at 7.15 sent up T. gallant masts. at 8, crossed T. gallant & Royal Yards.

Hugh Rodman
Ensign U. S. N.

From 8. A. M. to Meridian
Clear, warm and hazy. Light breeze from S. by E. & S.W. at 8.30 sent down light yards & sent them up again. Mechanics in Construction Dept at work on board. Tried all flood cocks and found them in good condition.

C. D. Galloway
Lieut U. S. N.

From Meridian to 4 P. M.
Pleasant weather. Gentle breeze from S. by W. End of ebb tide at 10. Moving to flood at 2.10. Received stores from Navy Yard in Construction & Equipment Department. at 2.10 powder boat from Naval Magazine came alongside and began taking on board powder, shell, fuzes & fixed ammunition & Ordnance stores. Received on board in quantities as per annexed list. at 2.25 Navy Yard Tug came alongside with provisions in quantities as per annexed list. Light at 3.10. at end of watch stowing shell room & Paymaster's store room. The following named men on extra time from leave returned to the ship viz: A. H. Forman app, W. Fink app, W. J. McLoughlin app, W. Bassett app, L. J. Kleinknecht app & J. Daley Lab.

H. B. Gearing.
Lieut U. S. N.

From 4. to 8. P. M.
Clear, cool & pleasant. Gentle breeze from South. Completed stowing ammunition & stores. at 4.50 sent powder lighter back to Ellis Is. While hauling the steam launch broke connecting rod. Sent cutter for her & towed her back to ship & hoisted her. The rod had a large flaw & was very defective. D. Donnel app, J. Middleton app & J. Welch app, returned on board 30 hours overtime. at 7.30 ship began swinging to the ebb.

C. D. Galloway
Lieut U. S. N.

From 8 P. M. to Midnight.
Clear & cool. Light breeze from S. by W. & S.W. Bright moonlight. Riding to ebb tide after 10.10.

H. B. Gearing.
Lieut U. S. N.

Examined and found to be correct.

S. T. Washburn.
Navigator.

Moons Declination 9 18° 0' First Quarter.

LOG of the UNITED STATES Steamer "Essex" 3d Rate,

At Anchor off Ellis Id, New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1					W.	2			30.41	72	70	68		b.	nmc	10	S.
2					"	2			30.39	72	69	68		b.	cumc	5	"
3					"	2			30.39	72	68	64		.	"	5	"
4					"	1-2			30.39	72	68	64		b.c.f.	"	4	"
5					S"W.	2			30.39	68	68	64		"	cir cumc	3	"
6					"	2			30.40	68	67	66		"	"	3	"
7					"	1			30.41	68	66	65		o.f.	nimb	0	"
8					W. S.W.	2			30.39	68	67	65		"	"	0	"
9					"	2			30.37	71	66	65		b.c.f.	nmc	10	"
10					S	2			30.36	74	71	68		"	cir	10	"
11					"	2			30.35	78	74	69		b.c.	cumc	6	"
Noon.					"	2			30.34	74	73	71		"	"	6	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 280 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 12000 "

Coal consumed during the preceding 24 hours, tons 220 lbs.

Coal remaining on hand at Noon, 138 " 1691 "

P. M.		Ship's Head							
1		N. N. E.	S.	2	30.28	74	70	b.c.	cumc	9	S.
2			"	2	30.27	70	67	"	"	4	"
3	Flood	S. "S. W.	"	2	30.27	70	67	"	cumc	8	"
4		"		2	30.28	70	71	c.	nmc	10	"
5		"	S. "S. E.	2	30.28	70	71	b.c.	cumc	9	"
6		S. W. by S.	S.	2	30.28	70	71	"	"	9	"
7		"	"	2	30.29	70	72	"	"	9	"
8	Swinging	S.	"	2	30.19	70	72	"	"	9.	"
9	to ebb.	S. E.	"	2	30.19	71	72	b.	"	9	"
10	Ebb	N. by E.	"	1	30.18	70	69	o.f.	nmc	10	"
11		N. N. E.	S. W	1	30.19	70	68	"	"	10	"
Mid.		"	"	2-3	30.16	71	72	"	"	10	"

under the command of Commander T. F. Jewell, U. S. Navy,

Tuesday August 10th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Unties at A.M.

Clear first two hours, cloudy remainder of watch with heavy fog setting last hour. Cool. Light airs to gentle breeze from West. At 2.0 commenced swinging and at 3.15 swung to flood.

D. L. Darling
Lieut U. S. N.

From 4 to 8 A.M.

Overcast cool & foggy. Light breeze from W. S. W. at 6.40 began swinging to ebb. At 8, riding to ebb.

C. L. Galloway
Lieut U. S. N.

From 8 A.M. to Meridian.

Light fog first two hours. Clear & warm rest of watch. Light breeze from W. S. W. at 8.40 swung to ebb tide & riding to ebb rest of watch. At 9.30 mustered at quarters. J. Glenn (app), absent without leave. Commander Judd awarded the following punishments viz: J. McKenna OM, not turning out to go on post & not getting his relief, Hammock, one week's extra duty. J. D. Lippincott app, was released from confinement, his time of punishment having expired. At 10.35 Called Away, all Boats "manned and equipped" & the trial of the carrying capacity of the boats for carrying crew in abandoning Ship. Some Navy Yard workmen, came on board, about 10.10. In rigging out the Steam Launch at boat exercise the right foot of Jas Jordan, app was caught between the inboard chain guy of the forward davit & the hammocks. Result of accident a contusion, but no bones broken.

H. Helgrazing
Lieut U. S. N.

From Meridian to 4 P.M.

Clear & warm. Light breeze from South. At 2.20 commenced swinging, at 2.30 swung to flood. At 2, rounded Assembly. Equipped & unshipped Battalion. Beat Flying Jib, Fore Topmast Staysail & main Trysail. Rove off running gear of Mainsail. Plumbers from Navy Yard at work in Forecastle pump & Carpenter from Navy Yard doing joiner work in Wardroom. Workmen left at 4.

D. L. Darling
Lieut U. S. N.

From 4 to 8 P.M.

Clear & pleasant weather. Light breeze from South. Riding to flood tide till 7.55 when began to swing to ebb. Unbent Mainsail. At 7.40 went to quarters & served out clean hammocks.

H. Helgrazing
Lieut U. S. N.

From 8 P.M. to Midnight.

Clear first part, foggy overhead remainder of watch. Barometer falling. Light airs from South & light airs to gentle breeze from East. At 9.20 commenced swinging and at 9.40 swung to ebb.

D. L. Darling
Lieut U. S. N.

Examined and found to be correct.

Hours Declination S 18° 41' First Quarter.

A. V. Wadhams
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Anchor off Ellis Island, New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				N.	W. by S.	3			30.16	43	42	41		o.c.	cirr cumu	0	S.
2				N. by W.	"	3			30.11	43	42	41		"	"	0	"
3				N.W. by N.	N.W. by W.	3			30.08	44	42	41		"	"	0	"
4				W.N.W.	W.N.W.	3			30.08	44	42	41		"	"	0	"
5	Swinging			S.S.W.	W.S.W.	2			30.08	44	42	41		b.c.	cir cumu	4	"
6	Flood			S.W. by S.	"	2			30.07	44	42	41		"	"	4	"
7	"			"	"	2			30.06	44	42	41		"	"	4	"
8	"			S.S.W.	"	2			30.06	44	42	41		"	"	4	"
9	Ebb			E.S.E.	S.W.	3			30.03	44	44	43		o.c.	cirr cumu	0	"
10				S.E.	"	2			30.03	46	45	43		b.c.	cir cumu	4	"
11				N. by E.	"	2			30.01	46	46	44		"	"	4	"
Noon.				N.N.E.	"	2			30.00	47	48	46		"	"	6	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 600 gallons.

Water ——— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1100 "

Coal consumed during the preceding 24 hours, 33 tons ~~2726~~ lbs.

Coal remaining on hand at Noon, 138 " 1731 "

P. M.										
1	Ebb	N. N. E.	S.W.	2	30.00	47	48	47	b.c.	cir cumu	6	S.
2			"	2	29.96	48	49	47	"	"	6	"
3	Swinging	W. N. W.	W. S. W.	2	29.97	47	48	48	"	"	5	"
4			"	3	29.97	48	49	47	"	"	6	"
5		S.W.	W.	3	29.96	49	48	47	"	cumu nimb	6	"
6		S.W. by S.	W. S. W.	3	29.95	49	48	47	"	cir	8	"
7		S.W.	"	3	29.92	49	49	46	"	"	7	"
8		S. by W.	"	3	29.91	49	49	46	b.c.	cir cumu	3	"
9		S.E. by E.	S.W.	2	29.90	49	49	46	b.c.	"	5	"
10	Ebb	"	"	2	29.90	48	47	45	"	cir	8	"
11		N.	W.	2	29.89	47	47	45	"	cumu	8	"
Mid.		N. by E.	S.W.	3	29.89	46	46	44	"	cumu nimb	4	"

under the command of Commander T. F. Jewell, U. S. Navy,

Wednesday August 11th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From 8 AM to Meridian

Stores Received August 11th in Engineers Department.

10 lbs Eureka Packing
100 " Potash
12 Manilla Mats
2 Qrs Letter Paper
15 " Official do
2 " Foolscap do
50 Envelopes Asstd
1 Box Shark Crayons
8 Books Mem.
3 Erasers Steel
½ Gro Paper Fasteners
1 Box Brown Soap
1 Bbl Charcoal
11 Cans Oil Polish
100 lbs Oatmeal (10 cans)
1 Set Steel Letters
1 " " Figures
2 Sewing Palms
9 Sail Needles
24 Handles Files
24 Brooms Cin.
3 Hammers
14 Gauge Glasses
36 Horn Lanterns
18 Globe do
1 1/8 Jaws Cylinder Oil
1 Bar Copper
1 " 3/4" Rock Copper.

Ex U.S.C.S. Ebb tide.

C. A. T. Dechtiln
Ensign U. S. N.

Rec'd from U. S. C. S. Dorothy

H. H. Gearing
Asst Surg U. S. N.

Rec'd of watch Light to Rec'd from U.S.C.S. Patterson U.S.N. Rec'd this inspection of ship. At 8.40 commenced

D. F. Magruder
Asst Surg U.S.N.

Rec'd from U.S.C.S. Royal 15 Recruits at Yerba Buena ship Boats & Abandon Ship.

C. A. T. Dechtiln
Ensign U. S. N.

Rec'd from U.S.C.S. Westwind Admiral J. C. Jouett U.S.N. Asst Staff Admiral

D. F. Magruder
Asst Surg U.S.N.

Rec'd of watch. Cloudy Rec'd from U.S.C.S. West Wind at 9.30

C. A. T. Dechtiln
Ensign U. S. N.

Examined and found to be correct.

S. T. Mathews.
Navigator.

Moans Declination 8 18° 24' First Quarter Moon

Lieut 2d

under the command of Commander T. F. Jewell, U. S. Navy,
Wednesday August 11th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Ends 4 A. M.
Cloudy. Gentle breeze from W. by S. to W.N.W. Ebb tide.
Ship began swinging to flood tide at 3.40.

C. A. T. Dechtlin
Ensign U. S. N.

From 4 to 8 A. M.
Cloudy and pleasant Light breeze from W. S. W. Throughout flood tide at 5.15. Sent boat ashore.

H. Heaving.
Lieut U. S. N.

From 8 A. M. to Meridian
Overcast first hour clear remainder of watch. Light to gentle breeze from S.W. At 10.45 Rear Admiral J. E. Jewett U.S.N. and Board of Inspection came on board, and commenced inspection of ship. Sent to Quarters and inspected crew and ship. At 8.40 commenced swinging, and at 9.00 swung to ebb.

D. D. Wadleigh
Lieut U. S. N.

From Meridian to 4 P. M.
Clear and warm. Light breeze from S.W. by W. to W.S.W. Royal Board of Inspection began the inspection at 1.15. Exercised at General Quarters, Fire Quarters, Infantry Drill, Arms & Equip, Boats & Abandon Ship.

C. A. T. Dechtlin
Ensign U. S. N.

From 4 to 8 P. M.
Clear and pleasant. Light breeze from S.W. and West. Gentle breeze from West at 4.25 Rear Admiral J. E. Jewett U.S.N. and Board of Inspection left the Ship. Sent Gaff to mast

D. D. Wadleigh
Lieut U. S. N.

From 8 P. M. to Midnight
Clear and pleasant, greater part of watch. Cloudy last hour. Light to gentle breeze from S.W. & West. At 9.30 ship began swinging to ebb.

C. A. T. Dechtlin
Ensign U. S. N.

Examined and found to be correct.

S. P. Wadhams.

Moors Declination 8 18° 24' First Quarter Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Anchor off Ellis Island, New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb			N. by E.	S.W.	2			29.88	64	64	63		b.cy.	nimb	4	S.
2	"			"	"	2			29.88	64	64	63		"	"	3	"
3	"			"	"	2			29.88	64	64	64		"	"	3	"
4	"			"	"	2			29.84	64	64	63		b.cy	"	6	"
5				S.W. by W.	W.	2			29.89	64	63	63		b.c.	Cir Strat	3	"
6				S.S.W.	"	1			29.90	65	64	62		b.c.	"	1	"
7				S.W. by W.	"	2			29.92	65	64	62		"	"	0	"
8				W.S.W.	"	2			29.92	65	65	63		b.c.	"	1	"
9				S. by E.	N.W.	2			29.95	64	65	62		"	"	3	"
10	6	8			S.W.	2			29.94	64	64	62		"	"	8	"
11	8	8		S.E.	South	2			29.94	64	64	64		"	"	8	"
Noon.	10	4		E. by S.	"	2			29.96	64	64	64		"	"	8	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 500 "

Coal consumed during the preceding 24 hours, 4 tons 1040 lbs.

Coal remaining on hand at Noon, 134 " 691 "

	P. M.									
10.4	1	Steaming around Sandy	South	1	29.94	78	78	74	b.cy.	cir cumu	8	S.
10.1	2	Hook Light-Ship	"	1	29.94	78	79	76	"	"	9	"
9.4	3	Steaming in through	W.N.W.	2	29.96	80	80	78	"	"	8	"
	4	Main Channel	N.W.	3	29.96	79	80	78	"	"	9	"
	5	Flood	W.	3	29.95	79	81	78	b.c.	"	9	"
	6	"	S.W.	3	29.96	80	81	76	"	"	5	"
	7	"	"	1	29.97	80	80	76	"	"	5	"
	8	"	S.W. by S.	1	29.98	79	79	76	"	cir	8	"
	9	"	S.W.	N.W.	1	30.00	78	76	72	b.y	cir	8	"
	10	"	S.S.W.	"	1	30.00	78	76	72	"	"	8	"
	11	Slack	N.E. by N.	"	1	30.03	77	76	72	"	"	8	"
	Mid.	Ebb	"	"	1	30.04	78	75	72	"	"	8	"

under the command of Commander T. F. Jewell, U. S. Navy,
Thursday August 12th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Ends at 4 A.M.

Generally overcast; cloudy and hazy. Occasional starlight. Morn showing pantry tide 2.5° when it set. Light breze from S.W. Barometer steady. Riding to ebb till 3.5° when ship starts to swing. At middle of tide ebb set (per) S.by.W., draft 1.6.

H. Crowndstone.
Ensign U.S.N.

From 4 to 8 A.M.

Overcast. Light airs and breze from West. At 5° commenced swinging and at 5.15 swung to flood. At 4.30 started fires in all boilers. Reported steam ready at 8.00. At 5° U.S.S. "Brooklyn" went to sea. Engaged making preparations for sea. Exchanged with U.S.S. "Brooklyn" the following signals: Ernest 1st, Telegraph 0969, 0888, 1, 4220, 0660.

P.T. Harding
Asst U.S.N.

From 8 A.M. to Meridian.

Clear and warm. Light breze from N.W. to S. At 8.45 the Board of Inspection came on board. Hoisted Rear-Admiral Jouett's flag at mizzen. Got underway and steamed out of the harbor, five boilers blown off. Staten Island exchanged numbers with "Juniata". Draft of ship fwd 14.3 "Amid 15 aft 16.4" At noon off Sandy Hook Light-Ship. Stood out to sea through Swash Channel.

A.F. Lechtler
Ensign U.S.N.

From Meridian to 4 P.M.

Generally bright and clear; hazy around horizon. Light airs from South first part, shifting to light and gentle breze from W.N.W. and N.W. Barometer steady. Steaming around Sandy Hook Light-Ship till 2°, when headed in towards Sandy Hook. At 2.° crossed light-yards and at 2.20 stopped engines and made sail. At 2.35 shortened sail and furled at 2.38 at 2.40, went ahead on engines and stood in through Main Channel in charge of Duty Officer at end of watch, abreast Lower Quarantine. Board of Inspection on the ship.

H.C. Crowndstone
Ensign U.S.N.

From 4 to 8 P.M.

Clear and pleasant. Light airs from S.W. and S. Steaming back to New York Harbor. At 5.40 came to, off west 34th Street in 7 fms water with 30 fms in port chain. Bearings of Anchorage Castle Point S.W., Tripps Elevator S.E. 1/4 E. Board of Inspection left the ship. Kept fires under two boilers for distilling and allowed fires under other boilers to die out. Ship riding to ebb. At 6.° strength of tide 1.4 knots. At 7.° mustered at quarters; Jno Green appr, absent without leave

A.F. Lechtler
Ensign U.S.N.

From 8 P.M. to Midnight.

Clear and pleasant; bright moonlight. Hazy around horizon. Light airs from N.W. Commenced moving to ebb at 10.°, finished at 11.° At end of watch ebb set S.W. by S. (per) drifts 2.

Examined and found to be correct.

Commenced distilling. Barometer 30.0 to 30.0 at.

H.C. Crowndstone.
Ensign U.S.N.

Moon's Declination S 12° 23'

A.V. Wadhams.
First Quarter Asst Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Anchor off 34th Street, North River.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head.	WIND. Direction by Standard Compass.	Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb			N. E.	N. W.	2			30.04	46	44	40		b.c.	cir cum	8	S.
2	"			"	"	2			30.04	46	43	39		"	"	8	"
3	"			"	"	2			30.05	45	42	39		"	"	9	"
4	"			"	"	1			30.05	45	42	39		"	"	9	"
5	"			N. N. E.	W.	1			30.05	44	42	38		b.c.y.	str	8	"
6	Swinging			N. W.	Calm	0			30.04	44	41	40		"	"	8	"
7	Flood			S. W.	N. W.	0-1			30.08	44	41	39		"	cir	8	"
8	"			S. W. by S.	"	0-1			30.09	42	43	40		"	"	7	"
9	"			"	N. E.	1			30.10	43	40	41		b.c.	cum	8	"
10	"			"	S.	1			30.09	46	40	41		"	"	8	"
11	Slack			E. by E.	"	1			30.09	46	48	41		"	"	8	"
Noon.	Ebb			N. E. by N.	S. by S. W.	1-2			30.09	46	48	41		"	"	8	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 500 gallons.

Water Distilled during the preceding 24 hours, 1400 "

Water remaining on hand fit for use at Noon, 2000 "

Coal consumed during the preceding 24 hours, 3 tons 1980 lbs.

Coal remaining on hand at Noon, 130 " 934 "

P. M.										
1	Ebb	N. E.	S. by W.	1	30.06	46	46	42	cir cum	9 S.
2	"	"	"	1	30.03	46	44	43	"	9 "
3	"	"	S.	1	30.02	44	44	44	"	9 "
4	"	N. N. E.	S. S. E.	1	29.99	44	44	44	"	9 "
5	Slack	S. W. by S.	"	1	29.99	44	44	44	cum	6 "
6	Flood	"	S. W. by S.	2	30.00	44	44	43	"	6 "
7	"	"	"	3	29.99	48	48	43	"	5 "
8	"	"	S. by W.	3	29.98	47	46	44	"	5 "
9		"	S.	2-3	29.98	44	46	43	cum	2 "
10		"	"	2-3	29.99	46	46	43	"	1 "
11	Slowing to Ebb	S. by E.	"	2	29.99	46	44	42	"	1 "
Mid.		N. E.	"	2	29.98	45	43	42	b.c. cir cum	5 "

under the command of Commander T. F. Jewell, U. S. Navy,

Friday August 13th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Ends H. A. M.

Clear. Light breze from N. W. Riding to ebb. Distilling.

Hugh Rodman
Ensign U. S. N.

From H. to 8. A. M.

Weather hazy. Calm and light airs from N. W. & West. at 6, ship began ebb 6h. finished swinging to flood. Distilling & using two boilers.

C. A. T. Southerland
Ensign U. S. N.

From 8. A. M. to Meridian.

Clear bright & warm and pleasant. Light variable airs increasing to light breze from S. W. Last hour. Went to Quarters for inspection after which, drills as follows 1st & 2d Sec Great Guns, 3d Sec Oral Instruction Marines School of the Soldier. Jno. Green (Sea. app. 2 c.) having been absent 10 days without leave is by order of the Cmdg Officer this day declared a deserter. Ash lighter, came, alongside, and took ashes. Received on board in Ordnance 2 Sabots Rifle Ball Cartridges cal 45 for rifles 5000 Same for Cutting Gun 3000 Blank Cartridges for Rifles, 10 000 Revolver Ball Cartridges Cal 38. In Equipment 2 Sets Extra Grate Bars for Galley, 2 Sets extra Coal Strainers for Galley, 2 Mattresses, 2 Pillows. In Engineers Department 12 gr Lamp Wick, 1 Connecting Rod, 16 Zinc Holders, 32 Zinc Plates, 4 Manhole Bolts, 40 lbs Green Paint, 30 Hydrometers, 25 lbs Black Paint, 3 Rubber Pump Valves, 150 lbs 3/16" Plate Iron, 108 lbs 1/4" Plate Iron, 150 lbs Brown Zinc Paint, 30 lbs Litharge, 2 lbs Zepher Wicks. At end of watch, ebb set S. W. by S. 1.0 Knot. Distilling.

H. C. Townsend
Ensign U. S. N.

From Meridian to 4 P. M.

Clear. Light breze from S. & W. Riding to ebb tide. Navy Yard hands at work on board. Distilling, stopped at 3h 0m & hauled fires.

Hugh Rodman
Ensign U.S.N.

From 4. to 8. P. M.

Hazy bright moonlight latter part. Light airs from S. S. E. first part shifting to light to gentle breze from S. E. by S. & S. by W. Part liberty party ashore. Went to Quarters and served out hammocks. Commenced swinging to flood at 4.35 finished at 4.55. At end of watch flood set N. E. by N. 1/2 Knot. By order of Cmdg Officer empires Jules Debois (app) for 2 days on bread & water for articles in lucky bag and Wm. Branigan Ord. Sea. & S. Kendrick, Ct. for 2 days on bread & water for attempting to leave Navy Yard without permission.

H. C. Townsend
Ensign U. S. N.

From 8. P. M. to Midnight.

Clear & hazy first part clearing last hour. Fog over land to the W. at times. Light to gentle breze from S. At 10.40 began swinging to ebb. At 11h riding to ebb.

Examined and found to be correct.

Lt. Galloway
Lieut. U.S.N.

Moons Declination S 15° 33' First Quarter. East

S. V. Morgan
Navigator.

LOG of the UNITED STATES Steamer "Essex" 3d " Rate,

At Auchmoff 34th Street, North River

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb			N. E. by N.	S. S. W.	2			29.93	45	44	42		o.c.	cirrus	0	S.
2	"			"	"	2			29.92	45	44	42		"	"	0	"
3	"			"	"	2			29.91	45	44	42		"	"	0	"
4	"			"	"	2			29.86	45	44	43		"	"	0	"
5	"			N. E.	"	2			29.88	47	44	43		o.c. d.f.	"	0	"
6	"			W. by N.	"	2			29.84	45	45	42		"	"	0	"
7	Flood			S. W. by S.	"	2			29.84	45	44	43		f.d.	"	0	"
8	"			S. W.	W. by S.	2			29.84	45	44	43		"	"	0	"
9	"			"	W.	3			29.86	45	46	44		b.c.	cirrus	0	"
10	"			"	"	3			29.84	46	48	44		"	"	0	"
11	Slonging			S. W. by W.	W. N. W.	3			29.82	48	49	44		"	"	0	"
Noon.	Ebb			N. E. by E.	"	4			29.83	49	49	44		"	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 400 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1600 "

Coal consumed during the preceding 24 hours, tons 1200 lbs.

Coal remaining on hand at Noon, 129 " 1995 "

P. M.										
1	Ebb	N. by E.	W. N. W.	4	29.83	49	48	b.c.	cirrus	6	S.
2	"	N. N. E.	N. N. W.	3	29.83	49	48	"	cir. cirrus	4	"
3	"	"	"	3	29.84	48	48	"	"	4	"
4	"	"	"	3	29.84	48	48	"	"	8	"
5	"	"	N. W.	3	29.84	48	48	"	"	8	"
6	Slonging	"	"	2	29.86	48	48	"	"	9	"
7	Flood	S. W.	N. N. W.	2	29.86	49	49	"	"	8	"
8	"	"	N. W.	2	29.90	48	49	"	"	9	"
9	"	"	"	2	29.90	49	48	"	cirrus	8	"
10	"	S. W. by W.	"	3	29.93	50	49	"	"	4	"
11	Slonging	"	N. N. W.	3	29.95	49	49	"	"	7	"
Mid.	Ebb	N. N. E.	"	3	29.96	49	49	"	"	7	"

under the command of Commander T. F. Jewell, U. S. Navy,
Saturday August 14th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commenced and Ended 4 A. M.
Overcast. Light breeze from S. S. W. From 12m. riding to a strong ebb tide.

H. C. Searing
Lieut U. S. N.

From 4 to 8 A. M.
Generally overcast and cloudy with drizzling rain. Foggy. Light breeze from S. S. W. to W. by S. Commenced swinging to flood at 5 40m, finished at 6m. Passed light-Yards at 8. At end of watch flood set N. E, 1.8 Knots.

F. Comerstone,
Ensign U. S. N.

From 8 A. M. to Meridian.
Passing showers first part, fair and pleasant latter part. Gentle to moderate breeze from West. At 8h 5m loosed sail to a bowline. At 11 20m shortened sail. At 9:10 J. E. attridge apr. F. Gaynor apr. J. Conyer apr. left the dinghy without permission. At 10 30 offered a reward of $10.00 each for their apprehension and delivery on board this vessel. At 10 45 Comdg Officer left the ship to pay official visits. Ship swinging to ebb tide at 11m, riding to flood tide at 12m. At 11 30 Comdg Officer returned on board.

C. D. Galloway
Asst U. S. N.

From Meridian to 4 P. M.
Clear and pleasant. Gentle breeze from N. N. W. Riding to ebb. Sent liberty party on shore.

H. C. Searing
Lieut U. S. N.

From 4 to 8 P. M.
Clear, mild and pleasant. Light breeze from N. N. W. At 5m ship began swinging to flood tide, Riding to flood at 5 40m. At sunset sent down Royal Yards. Ensign Lovett left the ship on 48 hours leave of absence. J. Maguire 2 C. F. returned on board 2 hrs overtime.

C. D. Galloway
Asst U. S. N.

From 8 P. M. to Midnight
Clear and cool. Gentle breeze from N. N. W. Bright moonlight. Slack water at 11m. Swung to ebb at 11 20

H. C. Searing
Lieut U. S. N.

Examined and found to be correct.

A. Wadham
Navigator.

Moons Declination S 13° 0' Fast Guard. Lieut U S

LOG of the UNITED STATES Steamer "Essex", 3d " Rate,

at Anchor off 34th Street, North River.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Calm			N. N. E.	N. N. W.	3			29.974	36	66			b. c. y.	cum	4	S.
2				"	"	3			29.974	36	66			b. c.	"	8	"
3				"	"	3			29.974	36	65			"	cir. cum	9	"
4				N. E. " by N.	"	3			29.024	26	64			"	cir.	9	"
5				"	N. W. by N.	3			30.034	16	63			"	Str.	9	"
6	Swinging			N. N. E.	N. by E.	2			30.096	96	63			"	cir. cum	4	"
7				N.	N. N. E.	2-3			30.096	96	63			"	cir.	9	"
8	Flood			S. W.	N. E. by N.	2-4			30.156	96	64			"	Str.	8	"
9				"	W. S. W.	2			30.154	16	66			"	nme	10	"
10		"		S. W. by W.	"	2			30.154	26	66			"	"	10	"
11		"		S. W. by S.	S. W.	2			30.134	16	67			"	"	10	"
Noon.	Calm			N. E. by N.	"	2			30.154	16	68			"	"	10	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water ——— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1300 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 179 " 1551 "

P. M.											
1	Calm	N. E. by N.	N. N. W.	2	30.154	23	40	b.	nme	10	S.
2	"	"	"	2	30.154	33	40	"	"	10	"
3	"	"	N. W.	2	30.144	34	41	"	"	10	"
4	"	"	"	2	30.134	24	42	"	"	10	"
5	"	"	"	2	30.124	14	42	"	"	10	"
6	Swinging	N. " by E.	N. N. W.	2	30.094	14	43	b. c.	"	10	"
7	Flood	S. W.		2	30.084	14	42	"	"	10	"
8		"	S. W.	2	30.124	14	41	"	"	10	"
9		S. W. by S.	S. W. by S.	2	30.154	24	69	b.	"	10	"
10		"	S. W.	3	30.164	24	68	"	"	10	"
11		"	W. S. W.	3	30.164	26	64	"	"	10	"
Mid.		"	"	3	30.154	26	67	"	"	10	"

under the command of Commander T. F. Jewell, U. S. Navy,
Sunday August 15th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commenced and ended A.M.
Clear and cool. Gentle breeze from N.N.W. Riding to ebb. Strength of current 2. 8 Knots. Bright moonlight.
B.F. Waring
Lieut. U.S.N.

From 4 to 8 A.M.
Clear cool & pleasant. Gentle breeze from N.W. & N. veering to N.E. by N. and increasing in force. Commenced to flood at 6h0m. Riding to flood at 7h0m.
C.D. Galloway
Lieut U.S.N.

From 8 A.M. to Meridian.
Clear and pleasant weather. Light breeze from W.S.W. and S.W. Riding to flood tide 11h0m. Moving to ebb at 12h0m. At 9h0m Comdr Comdg inspected ship and crew at quarters. Held divine service on board Comdr Comdg officiating. The following named men absent without leave viz: R. Robertson App, W.C. Hammond app, P. Hagrio app, J. Hartel app, J. Dyrrity app, P. Rutledge app, J.E. Attridge app, J. Sinnick app, F. Gaynor app, J. Halpin App & Wm. Kelly O.M.
H.C. Gearing
Lieut U.S.N

From Meridian to 4 P.M.
Clear and pleasant. Light breeze from N.N.W. and N.W. By order of Comdg officer releases P.C. Hendrick I.C.F. J.E. Desbois app and Wm. Brabington C. Hor. Current at 3h4m, 2.5 Knots.
B.F. Waring
Lieut U.S.N.

From 4 to 8 P.M.
Clear and pleasant. Light breeze from S.W. at 6, commencing to flood. at 7 riding to flood. at 4h0m J. Breitenheimer app, left boat without permission while at bathing. Offered a reward of $10.00 for his apprehension and return to the ship.
C.D. Galloway
Lieut U.S.N.

From 8 P.M. to Midnight
Clear and pleasant. Light breeze from S.W. by S. Gentle breeze from S.W. and W.S.W. J. Hayden O.M. returned on board fifteen hours overtime. J. Hailey O.M. returned on board 2 3/4 hours overtime. At 10, strength of current 2.4 knots
B.F. Waring
Lieut U.S.N.

Examined and found to be correct.
A.T. Mahan
2nd Navigator.

Long. Declination 9°10' at Full Moon. Lieut

LOG of the UNITED STATES Steamer "Essex" 2d Rate,

At Anchor off 34th Street, North River.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
				Ships Head.													
A. M.																	
1	Calm			N. E. by N.	W.	2			30.156	70	67	66		b.	nmbs	10	S.
2	"			N. N. E.	"	1			30.156	96	66	65		"	"	10	"
3	"			"	"	1			30.156	86	66	65		"	"	10	"
4	"			"	"	1			30.156	86	66	65		"	"	10	"
5				N. E. by N.	S. by W.	1			30.146	86	66	65		b.c.	nbs	9	"
6				N. E. by E.	S. W.	2			30.146	86	66	65		"	cumbs	8	"
7	Swinging			N. by W.	W. by S.	2			30.156	96	66			o.c.	nmbs	0	"
8	Flood			S. by W.	"	2			30.146	96	66	65		"	cirs	0	"
9	"			S. W.	S. S. W.	1			30.186	96	66	65		b.c.	cirs nmbs	4	"
10	"			S. W. by S.	"	1			30.164	06	68	64		b.c.	"	8	"
11	"			"	"	1-2			30.164	17	69			"	"	8	"
Noon.	"			S. by W.	"	1-2			30.164	17	69			"	"	8	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ′ ″

Longitude by D. R. ° ′ ″

Latitude by observations of ☉ ° ′ ″

Longitude by chronometer from Forenoon Observations of ☉ ° ′ ″

Position at 8 a. m. Latitude by ° ′ ″

Longitude by ° ′ ″

Position at 8 P. M. Latitude by ° ′ ″

Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ☉ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ☉ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ☉ observed at " ° ′ ″

Variation of the Compass by Azimuth ☉ observed at " ° ′ ″

Water expended during the preceding 24 hours, 300 gallons.

Water ——— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1000 "

Coal consumed during the preceding 24 hours, tons 11a lbs.

Coal remaining on hand at Noon, 149 " 1191 "

P. M.									
1	Calm	S. by W.	S. by W.	3-4	30.134	42	68	cir cumbs	nS.
2	Swinging	E. by S.	"	4	30.124	32	67	"	8 "
3	Calm	E. by N.	S. S. E.	3-4	30.054	32	68	"	1 "
4	"	E. N. E.	"	4	30.094	32	68	o.c.	cum nmbs 0 "
5	Swinging	E. by N.	"	3-5	30.074	32	68	"	" 0 "
6	Flood	S. S. W.	S. S. W.	3-5	30.064	32	69	o.cg.	" 0 "
7	"	S. W. by S.	"	3-5	29.914	32	70	o.dg.	nmbs 0 "
8	"	"	"	3-6	29.884	31	71	"	" 0 "
9	"	"	S. W. by S.	3-5	29.884	31	71	o.cfg.	" 0 "
10		"	"	3-5	29.834	31	71	o.c.g.	" 0 "
11		S. W.	"	3-5	29.884	31	72	o.c.g.	" 0 "
Mid.		S. W. by W.	"	3-4	29.834	31	72		cum nmbs 1 "

under the command of Commander T. F. Jewell, U. S. Navy,
Monday August 16th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Ends 4. A. M.
Clear and cool. Bright moonlight. Light breeze from West. at 12.30 began and at 12.50 Finished swinging to the N. At 3.00 strength of current 2.6 miles per hour.

C. A. Leighton
Ensign U. S. N.

From 4. to 8. A. M.
Clear first part, overcast and foggy latter part. Light breeze from S. S. W. shifting to W. S. W. J. Hoggatt app. returned on board 4.8 hours overtime. At 7.00 swinging to flood. At 7.45 riding to flood.

C. G. Galloway
Lieut U. S. N.

From 8. A. M. to Meridian
Hazy first hour clear remainder of watch. Light airs and breeze from S. W. At 9.30 beat to Quarters for instruction and Exercise of Battery. Secured at 10.10. At 1 strength of current 2.2 knots. Lieut Galloway, Ensigns A. A. Bicknell and W. B. Hoggatt and P. F. Loomis received this day the commissions of their respective grades. Riding to flood tide. The following named men, absent without leave on authority J. E. Attridge app, J. Farmer app, F. Gaynor app, and N. T. Breitenheimer app & the following named men, absent without leave D. Robertson app, W. C. Hammond app, M. F. Jaegers, app, E. Schlentice app, J. F. Gerrity app and J. Hartel app.

P. T. Wadding
Lieut U. S. N.

From Meridian to 4 P. M.
Clear first half of watch. Cloudy last half. Moderate breeze from S. by W. and S. S. E. Ebb tide. Ship riding across tide. J. Foreman app was transfered to Brooklyn Hospital.

C. A. Leighton
Ensign U. S. N.

From 4. to 8. P. M.
Overcast and squally with sprinking rain occasionally during last three hours. Gentle breze to stiff squalls from S. S. E. shifting at 5 to S. S. W. Riding to ebb and tide until 6. so when ship swung to wind. Veered to 45 fms port chain. Confined by order of Cmdg Officer J. Hartel app and F. Gerrity app on bread and water for three days for absence from ship without leave.

P. T. Wadding
Lieut U. S. N.

From 8. P. M. to Midnight
Cloudy and squally. Heavy rain at intervals. Wind stiff in squalls from S. W. by S. Flood tide. Current 2.4 Knots at 10 P. M.

C. A. Leighton
Ensign U. S. N.

Examined and found to be correct.

T. W. Adams
Navigator.

Moves Vaccination 16 39 Fuel Mon Lieut and

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Anchor off 34th Street, North River.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	TEMPERATURE. Ther. att'd. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																
1	Flood			N. W.	S.W. by W.	2			29.81	43	43	42	o.c.g.	nimb	1	S.
2	Ebb			W. by S.	"	2			29.81	46	46	44	"	"	1	"
3	"			N.E. by N.	S. by W.	3			29.81	50	50	44	b.c.	cir cum	4	"
4	"			N.N.E.	"	3			29.82	44	44	44	"	"	5	"
5	"			"	W. by W.	3			29.80	44	44	42	"	"	6	"
6	"			"	W.	2			29.86	44	43	42	b.c.	"	8	"
7	"			"	W.N.W.	2			29.89	44	44	42	"	cir	8	"
8	Swinging			N.W. by N.	N.N.W.	3			29.84	44	44	40	"	cum	4	"
9	"			W.N.W.	N.W. by N.	3			29.89	44	44	40	"	"	2	"
10	"			"	"	3			29.89	44	44	40	"	"	8	"
11	"			W. by W.	N. by W.	3			29.92	44	44	40	"	"	8	"
Noon.				W.	N.N.E.	3			29.92	44	44	40	"	"	4	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.: Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M.: Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 200 "

Coal consumed during the preceding 24 hours, tons 40 lbs.

Coal remaining on hand at Noon, 159 " 791 "

P. M.														
1	Slack	N.E. by N.	N.N.W.	3			29.98	44	46	42	b.c.	cir cum	8	S.
2	Ebb	"	"	3			29.92	44	46	42	"	"	8	"
3	"	"	"	3			30.00	46	46	43	"	"	8	"
4	"	"	"	3			30.01	46	46	43	"	"	8	"
5	"	"	"	2			30.04	45	46	44	"	"	8	"
6	"	"	"	2			30.04	45	45	43	"	"	2	"
7	"	S. by W.	N.N.E.	2			30.04	46	44	43	"	"	2	"
8	Flood	N.W. by W.	"	2			30.04	44	44	42	"	"	2	"
9	"	S.W. by S.	N.E.	3			30.06	44	43	40	b.	"	2	"
10	"	"	"	3			30.08	43	41	69	b.c.	cum	9	"
11	"	"	"	3			30.10	43	40	66	"	cir cum	6	"
Mid.	"	"	"	3			30.09	42	40	65	"	"	1	"

under the command of Commander T. F. Jewell, U. S. Navy,
Tuesday August 17th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Ends 4 A. M.

Cloudy & squally first part. Clearing afterwards. Bright moonlight. Light to moderate breeze from S.W. by W. & S.S.W. Barometer Steady. Rising to flood tide till 12.30, ebbed, commenced to swing; finished swinging at 1m at end of watch, ebb set S.S.W, 2.6 knots.

A. C. Townsend
Ensign U.S.N.

From 4 to 8 A.M.

Generally clear. Light breeze from West & W.N.W. first hour. Gentle breezes from W.N.W. to North East at end of watch. At 4.30 strength of current 2.4 knots. Commenced swinging to flood at 7.00

B. F. Keeling
Asst Surgeon U.S.N.

From 8 A.M. to Meridian

Clear and pleasant. Gentle breeze from N.W. by N. to N.N.E. Flood tide. Ship swinging across to mid and tide. At 9.30 inspected at quarters. Drilled dividing at divisional drills as per routine. By order of Commander released J. Broderick Seaman from confinement. Absent at quarters. P. Robertson app, W. C. Hammond app, P. Rutledge app, J. Attridge app, J. Driscoll app, F. Gaynor app, C. Shuttice app, N. T. Breitenheimer app, J. Hattel app & N. J. McCabe app.

A. F. Jewell
Ensign U.S.N.

From Meridian to 4 P.M.

Partly clear bright pleasant; cirro-cumulus clouds. Gentle breeze from N.N.W. Barometer 29.98 to 30.01. Lying athwart the stream tide 1 & 4m when swung to ebb. At end of watch ebb set S.W. by S, 2.0 knots. Sent liberty party on shore.

A. Townsend
Ensign U.S.N.

From 4 to 8 P.M.

Clear and pleasant. Light breeze from N.N.W. & N.N.E. at 7/15 ship began to swing to flood.

A. F. Jewell
Ensign U.S.N.

From 8 P.M. to Midnight.

Clear first part. Bright moonlight. Moon rose at 8h. Generally cloudy latter part. Gentle breeze from N.E. J. Donnell app returned to ship having been absent 58 3/4 hrs without leave. F. J. Gaynor app. returned to ship having been absent from ship 84½ hrs without leave. Ship swung to flood at 8 o'clock. At end of watch, flood set N.E. by N, 1.8 knots.

A. Townsend
Ensign U.S.N.

Examined and found to be correct.

T. Morris Sullivan Ship's Mate 2 59 Full Moon.

A. J. Bradshaw
2nd Asst Engr
Navigator.

LOG of the UNITED STATES Steamer "Essex" 3d Rate,

At Anchor off 34th Street, South River.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				S.W. by S.	North	2			30.10	71	69	65		b.c.	cir	4	S.
2	Steering E by S			N.E. by N.	"	2			30.11	70	67	64		"	"	4	"
3				"	"	2			30.11	70	67	64		"	cir cum	6	"
4				"	"	2			30.12	70	66	63		"	"	6	"
5				"	"	2			30.13	70	66	63		"	"	5	"
6				"	"	2			30.16	69	64	62		"	"	2	"
7				"	N.E. by N.	3			30.18	69	65	62		"	"	2	"
8	Swinging Head			"		3			30.18	69	66	62		"	"	2	"
9				S. by W.	N.E.	3			30.22	69	66	64		"	"	5	"
10		"		S.W. by S.	"	3			30.22	70	68	65		"	"	3	"
11		"		S.S.W.	E.	3			30.22	71	70	65		b.c.	cumu nimb	0	"
Noon.		"		S.W.	"	3			30.21	71	70	66		"	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, Non "

Coal consumed during the preceding 24 hours, tons Non lbs.

Coal remaining on hand at Noon, 179 " 391 "

P. M.												
1		S.	E. by N.	3	30.18	70	70	65	b.c.	cumu nimb	0	S.
2		E.N.E.	E.N.E.	3	30.17	71	70	65	"	"	0	"
3		N.E.	N.E.	3	30.15	71	70	65	"	"	0	"
4	E by N		S.E. by S.	3	30.18	71	70	65	"		1	"
5	"	N.E. by N.	E.S.E.	3	30.19	71	70	66	"	cir cumu	4	"
6	"	N.E.	"	2-3	30.20	71	69	66	b.c.	"	6	"
7	"	"	East	3	30.20	70	69	66	"	"	8	"
8	"	N. by E.	"	2	30.22	70	69	66	"	cb	8	"
9	Flood	S. by E.	S.E.	2	30.24	69	68	65	"	"	9	"
10	"	S.W. by S.	"	2	30.24	69	67	64	"	"	9	"
11	"	S.S.W.	E. by S.	3	30.23	68	66	64	b.	"	9	"
Mid.	"	S.W. by S.	"	3	30.23	68	66	64	"	"	9	"

under the command of Commander T. F. Jewell U. S. Navy,
Wednesday August 18 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From Meridian to 4 A.M.
Cool clear and pleasant. Gentle breeze from West. Bright moonlight. At 1 Commenced swinging to ebb. At 3 Commenced riding to ebb. At 3:30 Commenced heaving in stream anchor.
C. D. Galloway
Lieut U. S. N.

From 4 to 8 A.M.
Weather cool and cloudy first half of watch then clear and pleasant. Light to gentle breeze from N. by N. E. by N. Ebb tide. At 6 current 1.8 knots. At 8 AM loosed sail.
A. A. Johnson
Ensign U. S. N.

From 8 A.M. to Meridian
Partly clear at first overcast and cloudy. Cloudy with cirro cumulus and cumulus. Gentle breeze from N. E. shifting latter part to East. First Lieut. B. T. Walling left the ship on his weeks leave. Went to Quarters for muster and inspection at 9 after which drilled as follows 1st Division Marines, setting up, afternoon from Quarters without leave R. Robertson F. A. 2 C. A. C. Hammond Cabp. J. E. Attridge 1 C. App E. Schultice F. App 2 C. N. F. Brittenhamer O. S. App, A. W. Phelps F. App 2 C. C. Parker Sea, F. J. Stokes App. Cleaned bilges. C. O. Landman Ord Sea was transferred to the U. S. Naval Hospital, Brooklyn. Swung to flood at 8, at end of watch flood set N. E, 1.8 knots.
H. Longstone
Ensign U. S. N.

From Meridian to 4 P.M.
Clear and pleasant. Gentle breeze N. E. Engaged getting in stores for officers messes and in restowing forehold. At 1 Commenced swinging to ebb at 1 30 Riding to ebb.
C. D. Galloway
Lieut U. S. N.

From 4 to 8 P.M.
Partly cloudy pleasant. Light to gentle breeze from E. by S. to East. Barometer 30.19 to 30.22. Riding to ebb. At 5 ebb set E. by S, 2.0 knots.
H. Longstone
Ensign U. S. N.

From 8 P.M. to Midnight
Clear and pleasant. Gentle breeze from E. by S. Moonlight. Swinging to flood at 8 30. Riding to flood at 9 30. Ensign Hugh Roman returned on board from 48 hours leave of absence.
C. D. Galloway
Lieut U. S. N.

Examined and found to be correct.
A. V. Wadhams
Navigator.

Moons Declination N 0° 56' Full Moon

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Anchor off 3d St. Street, Rock River.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			S.W. by S.	N. by W.	1			30.26	69	66	64		b.	nine	10	S.
2	Ebb			E.S.E.	"	1			30.23	69	66	64		"	"	10	"
3	"			N. by E.	W. N. W.	1			30.26	68	65	64		"	"	10	"
4	"			N.E. by N.		1			30.24	68	64	63		"	"	10	"
5					N.E. by N.	1			30.28	68	64	63		b.z.	"	10	"
6				N.E.	"	0-1			30.28	68	64	63		b.	"	10	"
7					"	0-1			30.28	68	64	63		b.	"	10	"
8				N.E. by N.	N.W.	1			30.31	68	66	64		"	"	10	"
9	Swinging				N. N. W.	1			30.33	4	68	66		b.c.	"	10	"
10				S. by W.	S.W.	1			30.34	04	16	8		"	"	10	"
11				S.S.W.	N.E.	1			30.33	4	04	69		"	"	10	"
Noon.				S. by W.	S.W. by S.	2			30.33	72	74	71		"	"	10	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 400 gallons.

Water ~~taken~~ Rec'd on board during the preceding 24 hours, 3100 "

Water remaining on hand fit for use at Noon, 3350 "

Coal consumed during the preceding 24 hours, 3 tons 580 lbs.

Coal remaining on hand at Noon, 176 " 111 "

P. M.									
1	Flood	S.W. by S.	S.S.W.	2	30.33	46	44	42	b.c.	cum	4	S.
2	"		"	2	30.33	46	45	40	"	"	3	"
3	"	E. by S.	S. by W.	2	30.33	46	45	40	"	"	6	"
4	Swinging	N.E. by N.	S.E.	2	30.33	44	44	40	"	"	4	"
5	"	N. N. E.	S.	2	30.31	43	43	40	"	"	2	"
6		"	S. by E.	2	30.31	41	41	69	"	"	8	"
7		N.E. by N.	S.S.E.	2	30.32	41	41	68	"	nim	10	"
8		"	"	2	30.33	40	40	68	"	"	10	"
9	Swinging	S.S.E.	S.E.	2	30.32	41	40	68	"	"	10	"
10	Flood	S.W.	S.S.E.	2	30.33	41	69	64	"	"	10	"
11	"	S.W. by S.	S.W. by S.	1	30.35	41	69	64	"	"	10	"
Mid.	"	"	"	1	30.36	41	69	64	"	"	10	"

under the command of Commander T. F. Jewell, U. S. Navy,
Thursday August 19th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ended 4 A. M.
Clear, with bright moonlight. Light N. W. airs. Slack water at 2 a.m. Strong to ebb about 2.15.

H. H. Gearing
Lieut U. S. N.

From 4 to 8 A. M.
Clear and pleasant hazy around horizon first part. Light airs from N. E. by N. shifting back from N. W. at 6 a.m. boats by detaching apparatus whale boat carried ready, two of boat dropping from davits, lowered down immediately and secured all gear except mizen boat took mizen sail covers, ensign & staff which could not recovered by boat sent to pick gear up. Riding to ebb at 5 o'clock, ebb set S. W. 2.8 knots. At 8 o'clock crossed light yards.

W. C. Cornelius
Ensign U. S. N.

From 8 A. M. to Meridian
Clear and pleasant. Light breeze from N. N. W. shifting around compass to N. E. then S. W. by S. at 9 a.m. started fires in six boilers. Making preparations for getting underway. At 9.30 a.m. mustered at Quarters R. Robertson O. S. Hammond J. B. Attridge N. J. Breitenheimer apps, E. Parker Ord. Sea. J. McFadden A. S. P. Emory App. absent without leave. At 11 a.m. R. Robertson app. returned on board 2 hours ex time. O. W. Stone and P. Emory apps, returned on board 5 hours ex time. Stopped swinging to flood at 9.15 a.m., riding to flood at 10 a.m.

C. P. Galloway
Lieut U. S. N.

From Meridian to 4 P. M.
Fair, warm weather. Light breeze from S. S. W. to S. E. at 1.15 got underway and steamed down North River anchoring off Ellis Island at 2.03 in 5 fms water, with 30 fms chain on port anchor. Bearings from anchorage as follows: Bartholdi Statue S. W. by W. Flagstaff Ellis Is. N. W. by W. Hoisted out steam cutter. Water boat Cohoes came alongside & received from her 3100 gals water. Sent boat for powder and at end of watch taking powder on board. Returned to the Magazine one (1) 200 lb powder tank, five (5) charges of 30 lbs each spherohexagonal & 1300 blank cartridges Cal. 45.

H. H. Gearing.
Lieut U. S. N.

From 4 to 8 P. M.
Clear cool & pleasant. Fresh breeze from S. E. Finished taking in powder. Received on board 50 Quick Firing Primers, 100 Quick Perc. Primers, 50 Exercises 28-cm lb Powder Tanks, 100 Cartridge Bags containing 3240 lbs spherohexagonal Powder and 50 Percussion Fuzes. Navy Yard tug came alongside at 4.20 E. B. Ladd, F. J. Cayne and J. Donnelly App, were confined for three days on bread & water for leaving boat without permission and remaining absent 3 days.

C. P. Galloway
Lieut U. S. N.

From 8 P. M. to Midnight
Clear cool moonlight after 9.30 p.m. Light airs from S. W. & W. Slack water at 8 o'clock. Strong to flood at 9.15 p.m. at 10.20 hauled fires on all boilers.

H. H. Gearing
Lieut U. S. N.

Examined and found to be correct.

P. M. Adams
Lieut U. S. N. Navigator.

Moons Declination N 40° 39' Fuse Mon.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Anchor off Ellis Island, New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			S. by E.	E. by E.	1			30.37	70	68	66		b.	cume	10	S.
2	Sloughing			S. E. by S.	"	1			30.36	68	67	65		"	"	10	"
3	Ebb			N. E. by E.	"	1			30.36	68	67	64		"	"	10	"
4	"			N. E. by N.	"	1			30.36	67	66	63		"	"	10	"
5	"			N. N. E.	N. E.	1			30.36	69	66	63		b.y.	cumu str	9	"
6					"	1			30.40	69	66	64		b.y.	cir	1	"
7				N. E. by N.	E.	1			30.42	70	64	66		"	cir cumu	9	"
8				"	E. by S.	1			30.44	70	68	66		"	"	7	"
9	Ebb			"	"	2			30.44	70	69	68		"	"	7	"
10	Flood			S. S. W.	East	2			30.45	71	72	68		b.c.	"	8	"
11				"	"	2			30.45	71	74	70		"	"	8	"
Noon.				"	"	2			30.45	72	72	71		"	"	8	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water ——————during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 3000 "

Coal consumed during the preceding 24 hours, tons 1700 lbs.

Coal remaining on hand at Noon, 145 " 651 "

P. M.										
1		S.	S. S. E.	2	30.44	72	73	40	b.c.	cir cumu	S	S.
2		S. by E.		2	30.43	72	73	40	"	"	8	"
3		E. by N.	S. E.	3	30.42	73	72	69	"	"	8	"
4		E. ½ S.	S. E. by E.	3	30.42	73	72	68	"	"	8	"
5	Ebb	N. N. E.	E. S. E.	2	30.41	72	70	68	"	cir str	9	"
6	"	N. E. by N.	"	3	30.40	70	70	68	"	"	9	"
7	"	"	"	3	30.40	69	68	67	"	"	9	"
8	"	"	"	3	30.39	68	67	66	"	"	9	"
9		N. N. E.	"	2	30.39	68	66	65	b.	cume	10	"
10	Flood	N. N. W.	"	2	30.39	68	65	65	"	"	10	"
11	"	S. S. W.	East.	1	30.39	69	66	64	b.c.	cir cumu	8	"
Mid.		S. W. by S.	"	1	30.39	69	66	64	"	"	8	"

under the command of Commander T. F. Jewell, U. S. Navy,
Friday August 20th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Unties A. M.
Clear. Light breze from E. S. E. Coming to ebb at 2. P.
Hugh Rodman
Ensign U.S.N.

From 4. to 8. A. M.
Clear hazy, pleasant weather. Light breze from N. E. veering to E. by S. Tide ebb. At 6.00 sent Steam launch in shore for soft coal.
E. D. Galloway
Asst U. S. N.

From 8. A. M. to Meridian.
Clear pleasant weather. Light breze from East. At 9.30 slack water & coming to flood at 10.00. At 9.30 exercised at Fire Quarters times of streams in respond sounding of alarm 0.m 45.s 1st Strm & other streams 1.m 35.s Absentees without leave at quarters with U. C. Hammond Ap. J. E. Attridge Apr, N. T. Brittenheimer Apr, C. Parker Fra & P. C. Fenger Apr.
H. E. Searing
Asst U. S. N.

From Meridian to 4 P. M.
Clear. Moderate breze from S. & E. Commander Jewell left the ship on leave of absence for three days and Lieut Galloway for five days. Coming to ebb tide about 1.45. Set the Aneroid Barometer to U. S. Signal Station for comparison with standard Mercurial Barometer to get correction and comparison with ships Mercurial Barometer.
Hugh Rodman
Ensign U. S. N.

From 4. to 8. P. M.
Clear and cool. Light breze from E. S. E. Riding to ebb tide. at 7.: sent down royal yards.
H. E. Searing.
Asst U. S. N.

From 8. P. M. to Midnight
Clear. Light breze from E. S. E. & East. Coming to flood tide about 10 P. M.
Hugh Rodman
Ensign U. S. N.

Examined and found to be correct.

A. V. Wadhams.

Mons Declination N 8° 20' Full Moon
Lieut U. S. N. & Navigator.

LOG of the UNITED STATES Steamer "Osceola" 3d Rate,

At Anchor off Ellis Island, New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.															cir		
1				S.W. by S.	East	2			30.39	40	66	64		b.c.	str	8	S.
2	Calm			N.E. by E.	"	2			30.37	40	66	63		"	"	8	"
3	"			N.E.	E. N.E.	3			30.37	40	66	63		"	"	9	"
4	"			N.N.E.	"	3			30.37	69	64	62		"	"	9	"
5	"			"	"	3			30.37	67	64	62		"	"	8	"
6	"			"	N. E.	2			30.37	67	63	62		"	"	8	"
7	"			N. by E.	E. by N.	2			30.38	67	69	63		b.c.	"	8	"
8	"			N.E. by N.	"	2			30.39	68	67	65		"	"	8	"
9				N.N.E.	E.	2			30.40	69	69	65		b.c.	"	9	"
10				N.E. by N.	"	2			30.39	41	40	64		"	"	8	"
11				S.W.	S. E.	2			30.38	41	40	62		"	cum	6	"
Noon.				S.W. by S.	"	2			30.36	41	41	68		"	"	5	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2650 "

Coal consumed during the preceding 24 hours, tons 4 lbs.

Coal remaining on hand at Noon, 125 " 221 "

P. M.											
1		S.S.W.	S.S.E.	2	30.35	41	40	64	b.c.	cir cum	6	S.
2		South		2	30.34	41	40	68	"	"	6	"
3		S.E. by S.	S.E. by S.	2	30.34	42	40	64	"	cum str	5	"
4		N.E. by E.	"	3	30.33	41	40	64	"	cir cum	4	"
5		E.S.E.	S.E.	2	30.30	41	69	66	"	"	8	"
6		N. by E.	W.N.W.	2	30.30	40	69	66	"	"	8	"
7		N.E. by N.	N.W.	2	30.29	40	64	66	"	"	8	"
8		"	East	2	30.27	69	69	65	"	"	8	"
9		"	"	2	30.26	86	66	64	b.	rain	10	"
10		"	"	3	30.25	69	65	63	"	"	10	"
11	Sounding	E. by N.	"	3	30.23	68	64	62	"	"	10	"
Mid.	Flood.	S. by W.	"	3	30.22	68	63	62	"	"	10	"

under the command of Commander T. T. Jewell, U. S. Navy,
Saturday August 21st, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Until 4 A. M.

Clear and cool. Bright moonlight. Light to gentle breze from East and E. N. E. Ship rolling to ebb tide, about 10°. Current very weak.

A. T. Jackson
Ensign U. S. N.

From 4 to 8 A. M.

Pleasant weather with haze around horizon after 6°°. Light breze from N. E. and E. by N. Riding to ebb tide. Surgeon G. A. Hawke U. S. N. left the ship on five (5) days leave.

H. Helgesgring,
Lieut U. S. N.

From 8 A. M. to Meridian

Clear. Moderate breze from East and S. E. Mustered and inspected crew at quarters. Found following named men absent without leave; J. E. Attridge apr. N. F. Brettenheimer apr. C. Parker Sea, P. P. Finger apr, J. Mc. Neal W. F. H. C. Jarrett apr. W. C. Hammond apr, returned on board 1 & 9 hours over time. Rowing to flood tide about 10 AM.

Chas. A. Parkman
Ensign U. S. N.

From Meridian to 4 P. M.

Weather pleasant and partially cloudy. Light to gentle breze from E. S. E. and S. E. by S. Began to swing to ebb tide at 2. 20, finished at 3. 30. Steam Cutter was disabled, by the bottom blow pipe being stopped up.

A. T. Jackson
Ensign U. S. N.

From 4 to 8 P. M.

Clear. Moderate breze from S. and E. and N. and W. Sent down Top gallant Yards at Sunset. The Aneroid Barometer was brought on board from signal station.

Chas. A. Parkman
Ensign U. S. N.

From 8 P. M. to Midnight

Clear and cool. Bright starlight. Moonlight last hour of watch. Light to gentle breze from East. Ship began to swing to flood tide at 11°°, finished at 12.

A. T. Jackson
Ensign U. S. N.

Examined and found to be correct.

A. T. Mahan,
Lieut U. S. N. Navigator.

Moons Declination N 11° 43' Full Moon

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Anchor off Ellis Island, New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	Force.	Heel.	Leeway.	BAROMETER. Height in inches.	Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	Air, Wet Bulb.	Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			S. by W.	East	2			30.24	67	63	62		h.	nme	10	S.
2						2			30.3	64	63	62		"	"	10	"
3	Slack			N. E. by E.	E. N. E.	2			30.3	64	63	61		"	"	10	"
4		"		N. E.	N. E.	2			30.19	67	62	60		"	"	10	"
5		"		N. E. by N.	N.	2			30.19	66	62	60		b. cy.	cir cum	8	"
6		"		N. N. E.	N. by W.	2			30.18	65	61	60		"	"	8	"
7		"		N. by E.	N.	2			30.17	65	61	60		"	"	8	"
8		"			"	2			30.17	65	63	61		"	"	8	"
9		"		N. N. E.	N. by E.	2			30.16	65	64	62		"	"	8	"
10		"			N. E.	0			30.13	67	68	63		"	"	8	"
11	Swinging			N. E. by E.	"	3			30.14	68	68	64		"	"	8	"
Noon.	Flood			S. by W.	"	3			30.10	68	68	65		"	"	8	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2350 "

Coal consumed during the preceding 24 hours, tons 4 cwt lbs.

Coal remaining on hand at Noon, 124 " 3091 "

P. M.											
1	Flood	S.W. by S.	E. N. E.	2	30.09	70	70	66	by	nme	10	S.
2	"		"	2	30.07	70	70	64	"	"	10	"
3	"	S. W.	E.	1	30.04	71	71	60	h.	"	10	"
4	Slack	E. by S.	N. E.	1	30.06	71	72	68	"	"	10	"
5	Ebb	E. N. E.	S. by W.	2	30.04	71	71	68	"	"	10	"
6	"	E. S. E.	"	2	30.02	71	70	68	"	"	10	"
7	"	N. N. E.	"	1	30.02	71	70	68	"	"	10	"
8	"	"	Calm	0	30.02	70	69	68	"	"	10	"
9	"	"	W. N. W.	0-1	30.03	69	69	64	"	"	10	"
10	"	"	"	0-1	30.01	69	69	64	"	"	10	"
11	Flood	N.	N. W.	1	30.01	69	68	66	"	"	10	"
Mid.	Slack	W. by N.	"	1	30.01	68	67	65	"	"		

under the command of Commander F. F. Jones, U. S. Navy,
Sunday August 22, 1886

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Ends at A. M.

Clear and cool. Bright moonlight. Barometer 30.21 to 30.19. Light breeze from East to N. E. Riding to flood tide 2.30, when swung to ebb. At end of watch, ebb set S.W., 1.0 knot.

H. C. Grindstone
Ensign U. S. N.

From 4 to 8 A. M.

Clear overhead, hazy around horizon. Light breeze from N. & W. N. & W. Crossed Topgallant Yards at 8 A. M.

Hugh Rodman
Ensign U. S. N.

From 8 A. M. to Meridian.

Clear & cool. Gentle breeze from N. by E. & N. E. At 11 a.m. began and at 11.45 finished swinging to flood tide. At 9.30 Commanding Officer inspected ship and crew at Quarters. At 10 a.m. called all hands to muster and read the regulations for giving liberty on shore. By order of Commanding Officer relieved from confinement F. D. Payne apr, E. D. Dorsett apr. also placed in confinement on bread & water for two days Thos. Passmore 2.C.F. for attempting to leave the Navy Yard without permission and on bread & water for three days R. Rowden apr for overstaying leave. Absent at Quarters N. P. Breitenheimer apr, J. E. Attridge apr, P. P. Fingo apr, J. McNeal Oiler, J. Craven Machst 2nd C. Druiler Mat A.

C. A. Gadsden
Ensign U. S. N.

From Meridian to 4 P. M.

Clear bright & warm. Hazy around horizon first part. Light breeze from E. N. E. first part, falling to light airs from E. to N. E. afterwards. Barometer 30.09 to 30.06. Sent liberty party on shore. Riding to flood tide 3.30 p.m., when commenced swinging. At 2.30 flood set N. E. 1.4 knots.

H. C. Grindstone
Ensign U. S. N.

From 4 to 8 P. M.

Clear & pleasant. Light breeze from S. by W. Came at end of watch. Ebb tide.

C. A. Gadsden
Ensign U. S. N.

From 8 P. M. to Midnight.

Clear & Cool. Light airs from W. N. W. to N. W. Hove to at 11 p.m. Bright starlight. Barometer steady. Riding to ebb tide till 10 p.m. when commenced to swing. Tide not appreciable.

H. C. Grindstone
Ensign U. S. N.

Examined and found to be correct.

F. F. Jones
Lieut & Navigator.

Mean Declination N 12° 39' East Mom

LOG of the UNITED STATES. Steamer "Essex", 3d Rate,
at Anchor off Ellis Island, New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			S.W.	West	1			30.01	68	65	64		b.c.	cumu	8	S.
2		"		"	"	1			30.00	68	65	62		"	"	8	"
3		"		S. S.W.	"	1			30.01	68	64	63		b.	"	8	"
4		"		N.E. by E.	"	1			29.99	64	64	63		"	"	8	"
5				N.E. by N.	Calm	0			29.99	68	63	63		b.c.y.	cir	6	"
6				N.N.E.	"	0			30.00	68	63	63		"	cumu	6	"
7				N.E. by N.	N.N.E.	1			30.02	67	63	60		"	"	8	"
8				"	N.W.	1			30.02	67	65	60		"	cir cumu	9	"
9				N.N.E.	N. by E.	1			30.01	68	67	65		b.c.	"	9	"
10				N by E.	S.W.	1			30.03	70	70	68		"	"	8	"
11				"	N. by W.	1			30.03	71	70	67		"	"	8	"
Noon.				S.W.	South	1			30.02	71	71	69		"	"	8	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 3m gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1950 "

Coal consumed during the preceding 24 hours, 1 tons 460 lbs.

Coal remaining on hand at Noon, 128 " 1331 "

P. M.											
1	Flood	S.W. by S.	South	2	30.02	72	72	70	b.c.y.	cir cumu	6 S.
2	"	S.W.	"	2	30.02	73	73	70	"	"	4 "
3	"	S.W. by S.	S. S.W.	2	30.02	74	74	70	"	"	8 "
4		E.N.E.	"	2	30.02	74	74	71	"	"	8 "
5	at Coal Wharf Navy Yard		"	3	30.02	74	74	70	"	cumu	9
6		"	"	3	30.02	74	74	69	b.	clr	9
7		"	South	1	30.02	74	73	69	"	cumu	10
8		"	"	1	30.03	74	73	69	"	"	10
9			S.E. by S.	1	30.03	72	71	70	"	"	10
10			Calm	0	30.03	72	70	68	"	"	10
11			"	0	30.02	71	70	69	"	"	10
Mid.			"	0	30.01	71	69	68	"	"	10

under the command of Commander T. F. Jewell, U. S. Navy,
Monday August 23d, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Ends as A.M.
Clear & pleasant. Light airs from West. Going to flood at 11.30.
T. F. Jewell
Ensign U. S. N.

From 4 to 8 A.M.
Hazy. Calm first half of watch. Light airs from N.N.E. & N.W. last half. Began to swing to ebb at 4.30 finished 5.15. At 6, strength of current, setting S.W. by S., 1 knot. At 8, crossed Royal Yards.
E. A. T. Lechler
Ensign U. S. N.

From 8 A.M. to Meridian.
Clear bright weather. Cirro cumulous clouds around horizon. Light variable airs. Barometer steady. Went to General Quarters at 9.30 a.m. ready in 5 m. 05 s. Secured in 6 m. Absent from Quarters without leave P. P. Finger I.C. app, N. T. Brettenheimer S.A. 2.C., J. E. Cartridge I.C. App & T. Graves Mchst. The following punishments were assigned by Commanding Officer; P. Rutledge I.C. app. for being skowed away on launch watch one week's extra duty, C. L. Jefferson C.A. 2.C. out of order, at Quarters, 2 days extra duty. Broke out torpedo locker & found flood cock leaking as before. At 11.30 the Commdg Officer, Commander T. F. Jewell returned from leave. At 11.55 started fires under all boilers. Rove off cat & fish falls. Riding to ebb till 11 o'clock when commenced swinging. Black water from 11 to 11.30 when ship swung to flood. At 8 P.M. ebb set S. by W., 1 knot.
H. Townsdstone
Ensign U. S. N.

From Meridian to 4 P.M.
Clear & pleasant. Light breeze from S.S.W. At 1.45 sent down Topgallant & Royal Yards & Topgallant Masts. At 3.40 got underway & stood for Navy Yard.
H. Toombs
Ensign U. S. N.

From 4 to 8 P.M.
Generally clear, bright & pleasant. Gentle to light breeze from S.S.W. first part, shifting to South, in light airs latter part. Stood into Washington Bay at 4.15 & got alongside coal dock, Navy Yard at 4.30. Secured ship with dock fasts. Exchanged numbers with U.S.R.S. "Vermont." Hauled fires under No 2, 4, 5, 6, 7 & 8 boilers at 6.20. Received from U.S.R.S. "Vermont" 25 Tons Coal.
H. Townsdstone
Ensign U. S. N.

From 8 P.M. to Midnight
Clear. Light airs from S.E. & S. during first hour & calm during remainder of watch.
H. Toombs
Ensign U. S. N.

Examined and found to be correct.
A. V. Wadhams.
Lieut & Navigator.

Moons Declination N 16° 55' Last Quarter

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Navy Yard Brooklyn, New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.					N W.	1			30.04	69	69	67		b.	nmr	10	S.
1					"	1			30.04	69	68	66		"	"	10	"
2					"	1			30.04	69	68	66		b.cy	cir. cum	9	"
3					W. N. W.	1-0			30.05	69	68	66		b.cp.	"	4	"
4					Calm	0			30.05	70	67	66		"	cum	4	"
5					S.	1			30.05	70	67	66		b.c.	cir.	8	"
6					S. W.	1			30.09	70	67	66		"	"	4	"
7					S S W.	1			30.09	71	71	70		"	"	8	"
8					"	1			30.11	74	74	72		"	"	5	"
9					S W.	1			30.12	75	74	73		"	"	8	"
10					"	1			30.12	75	74	74		"	"	5	"
11					South	1			30.12	76	74	74		"	"	3	"
Noon.																	

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 7600 "

Coal consumed during the preceding 24 hours, 8 tons 980 lbs.

Coal remaining on hand at Noon, 172 " 51 "

P. M.																	
1					S E by S.	1			30.10	74	74	74	76	b.c	cir cum	4	S.
2					"	1			30.09	75	74	74	76	"	"	4	"
3					"	1			30.08	75	74	74	75	"	"	4	"
4					"	1			30.08	74	74	74	74	"	"	5	"
5					"	1			30.08	74	64	64	64	"		1	"
6					"	2			30.04	75	74	73	73	l.c	cum & nmb	0	"
7					E. S E.	2			30.04	74	74	73	72	b.c.	"	1	"
8					"	2			30.04	74	74	73	72	l.c.	"	0	"
9					N. E.	2			30.06	74	74	73	71	"	"	0	"
10					"	2			30.05	74	74	74	71	"	"	0	"
11					"	3			30.03	74	74	74	71	b.cy	"	6	"
Mid.					North	3			30.03	73	73	72	70	"	"	7	"

under the command of Commander T. F. Jewell, U. S. Navy,

Tuesday August 21st, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences, and Until 4 A. M.

Clear first two hours, hazy latter part of watch. Light N. Wly airs. Moon rose at 12.10.

H. C. Gearing,
Lieut U. S. N.

From 4 to 8 A. M.

Foggy first part, clearing afterwards. Calms, and light variable airs. Barometer 30.05 to 30.09. Broke out hose on locker. Got ready for coaling ship. At 7 30 fidded Topgallant Masts. Received in Pay Dept of this vessel for issue to crew 153 1/4 lbs. each of fresh beef & vegetables & 115 lbs bread. Rossed Topgallant Yards at 8 O'clock. P. Graver, Mach, came on board, having overstayed leave 84 1/2 hours. Carried away hog round of Jacobs ladder on main, while fidding Topgallant Mast.

N. C. Stonestone
Ensign U. S. N.

From 8 A. M. to Meridian.

Cloudy. Light airs from S. S. W. first hour & from South remainder of watch. Exercised infantry company. By order of Cond'g Officer released Thos. E. Pasmore, 2 C. F., from confinement. By order of Cond'g Officer placed J. Mc. Kenna, P. M., in solitary confinement on bread & water for two days for not turning out of hammock when called by Corporal. A Board from the Yard held a survey on a No 4 U. S. Flag. Received from U. S. R. S. "Vermont" C. W. Frank, 1 ds.

F. Toomey
Ensign U. S. N.

From Meridian to 4 P. M.

Warm & sultry. Light airs from S. E. by S. By order of Cond'g Officer placed B. Fountain, Ch. Gr. Mate, under sentry's charge to sober up, the latter being found under the influence of liquor while on duty. Examined & found all right the Gun fittings, of Sailing Launch & 1st Cutter. A few Navy Yard workmen engaged on board.

H. C. Gearing
Lieut U. S. N.

From 4 to 8 P. M.

Cloudy. Light airs from S. E. by S. first two hours & from S. S. E. remainder of watch. At 6 sent to Quarters & the following men were found absent without leave P. P. Finger ab & J. Attridge ab.

F. Toomey
Ensign U. S. N.

From 8 P. M. to Midnight.

Cloudy but clearing off, overhead with haze & light fog around horizon. Light increasing breeze from N. E. to West.

H. C. Gearing
Lieut U. S. N.

Examined and found to be correct.

F. W. Rathbone
Lieut & Navigator.

Moons Declination N 18° 19' Last Quarter

LOG of the UNITED STATES. Steamer "Essex", 3d Rate,

Navy Yard, Brooklyn Nav Yrk.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1					East	3			30.03	34	34	34	34	b.c.	cumu	4	
2					N. E.	3			30.03	34	34	34	34	"	numb	4	
3					"	3			30.03	34	34	34	34	"	"	4	
4					"	3			30.03	34	34	34	34	"	"	4	
5					"	3			30.03	34	34	34	34	"	"	3	
6					"	4			30.04	34	34	34	34	"	cumu	4	
7					"	4			30.06	34	34	34	34	b.c.	nimb	0	
8					"	4			30.06	34	34	34	34	"	"	0	
9					"	3			30.08	34	34	34	34	b.c.	nimb	4	
10					"	2			30.09	34	34	34	34	"	"	5	
11					N. E. by E.	2			30.10	34	34	34	34	"	cir cumu	6	
Noon.					N. by E.	2			30.11	34	34	34	34	"	"	6	

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1250 "

Coal consumed during the preceding 24 hours, tons 1620 lbs.

Coal remaining on hand at Noon, 119 " 991 "

P. M.							
1		N. N. E.	2	30.11	34	34	34	34	b.c.	cir cum	6
2		"	2	30.11	34	34	34	34	"	"	4
3		E. by N.	2	30.11	34	34	34	34	c.	cumu nimb	1
4		"	2	30.15	34	34	34	34	"	"	2
5		N. E.	2	30.14	34	34	34	34	"	cumu	6
6		E. N. E.	2	30.14	34	34	34	34	b.c.	nimb	6
7		"	2	30.13	34	34	34	34	h.	"	4
8		N. E. by E.	2	30.13	34	34	34	34	"	"	4
9		N. N. E.	2	30.13	34	34	34	34	b.c.	"	6
10		"	2	30.13	34	34	34	34	"	cir cum	6
11		E. N. E.	2	30.13	34	34	34	34	c.	none	10
Mid.		"	2	30.16	34	34	34	34	"	"	10

under the command of Commander T. F. Jewell, U. S. Navy,

Wednesday August 24th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences, and until 4 A. M. Cloudy & hazy. Fresh breeze from East & N. E.

Hugh Rodman
Ensign U. S. N.

From 4 to 8 A. M. Partly cloudy first hour, overcast remainder of watch. Moderate breeze from N. E. Received in Pay Dept for issue to crew 153 lbs fresh Beef, 153 3/4 lbs Vegtables & 123 lbs fresh Bread. Making preparations for coaling ship.

F. Woodbury
Ensign U. S. N.

From 8 A. M. to Meridian. Wards. Light breeze from N. E. & N. E. by N. Received on board 22 tons anthracite Coal, of which one (1) ton in bags. By order of Commander Rud'g N. T. Brettschneider app'd & E. E. Attridge app'd, are declared deserters from the Naval Service both having been absent ten (10) days without leave. R. Roberts app'd by same authority was released from confinement his term of punishment having expired. Plumbers from Navy Yard at work from 9 A. M. in gun cotton room. Received in Engineer's Dept 250 Fire Brick.

H. C. Gearing.
Lieut U. S. N.

From Meridian to 4 P. M. Cloudy during first part later clear. Moderate breeze from N. & E. & S. Received on board 250 lbs coal in Equip't Dept. Hauled fires in boilers 1 & 3 at 12 30 P. M. Navy Yard hands at work from Construction Dept. The Steam Cutter was turned over to the Yard authorities to be fitted for torpedoes.

Hugh Rodman
Ensign U. S. N.

From 4 to 8 P. M. Partly cloudy. Light breeze from E. N. E. & E. & N. & E. by E. At sunset mustered at Quarters: absent without leave P. P. Finger app'r. Lieut R. T. Wallace U. S. N. reported returned from leave. Plumbers stopped work in gun-cotton room at 4 P. M.

H. C. Gearing
Lieut U. S. N.

From 8 P. M. to Midnight. Clear. Light breeze from E. & E. & N. Lieut Galloway U. S. N. returned from leave of absence.

Hugh Rodman
Ensign U. S. N.

Examined and found to be correct.

T. M. Graham
Lieut & Navigator.

Mean Declination N. 18° 39' Last Quarter

LOG of the UNITED STATES Steamer "Essex" 3d Rate,

Navy Yard, Brooklyn, New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	Force.	Heel.	Leeway.	BAROMETER. Height in inches.	Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	Air, Wet Bulb.	Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1					S.W.	1			30.17	49	70	68		h.	nme	10	
2					"	1			30.16	49	70	64		"	"	10	
3					"	1			30.16	49	70	64		"	"	10	
4					"	1			30.16	49	69	64		"	"	10	
5					West	1			30.16	49	68	64		bcy.	cumu	8	
6					"	1			30.16	49	68	64		"	"	8	
7					"	1			30.18	49	69	64		"	cir cumu	8	
8					"	1			30.18	49	70	69		"	"	8	
9					"	1			30.18	49	70	69		"	"	8	
10					W.N.W.	1			30.17	49	69	64		bc.	nme	10	
11					"	1			30.16	49	69	64		"	cir cum	7	
Noon.					West	1			30.12	49	78	74		"	"	9	

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water ~~during~~ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 900 "

Coal consumed during the preceding 24 hours, tons ~~4~~ lbs.

Coal remaining on hand at Noon, 141 " 3041 "

P. M.																	
1					W.N.W.	1			30.12	82	85	74		bcy	nme	10	
2					"	1			30.11	82	85	76		"	"	10	
3					"	1			30.09	82	85	74		"	"	10	
4					"	1			30.08	82	84	76		"	"	10	
5					N.W.	1			30.08	80	83	76		"	"	10	
6					"	1			30.07	80	82	75		"	"	10	
7					"	1			30.07	80	81	75		"	"	10	
8					"	1			30.08	79	80	75		b.	"	10	
9					"	1			30.06	79	79	75		"	"	10	
10					"	1			30.06	79	79	73		"	"	10	
11					"	1			30.08	79	78	73		"	"	10	
Mid.					"	2			30.07	79	76	73		"	"	10	

under the command of Commander T. F. Jewell, U. S. Navy,

Thursday August 26th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Cutis H. A. M.
Clear and damp. Light airs from S.W.
A. T. Dechidin
Ensign U. S. N.

From H. to 8. A. M.
Foggy first two hours changing into haze latter
H. C. Gearing
Lieut U. S. N.

Received from Torpedo Station Newport R. I. One (1) Complete outfit- Class D. of Torpedoes.

W. W. W. and West.
By order of Cmdg
variations for shifting
received in Starboard
Received from U. S. T. Wyandotte
three born by Lieut.
B. T. Walling
Lieut U. S. N.

U. W. and W. At 3 P.M. Navy
Yard Dock and Landing men, viz: P. P. Tingey
Board Seal
A. T. Dechidin
Ensign USN

From H. to 8. P. M.
Hazy and pleasant. Light airs from N. W. By order of Cmdg Officer
confined under deck by charge C. Tidemen 2nd Cl. and J. Y. Keaney Eng 4th for drunkenness.
Also confined by order of Cmdg Officer to await further action in his case C. Tidemen 2 C.
for fighting.
P. T. Walling
Lieut USN

From 8. P. M. to Midnight
Clear and pleasant. Light airs from N. W.
A. T. Dechidin
Ensign U. S. N

Examined and found to be correct.

J. W. Graham
Lieut and Navigator.

Moons Declination N. 17° 44' Last Quarter

under the command of Commander T. F. Jewell, U. S. Navy,

Thursday August 26th 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Cutis H. A. M.
Clear and damp. Light airs from S.W.
A. T. Hechtlen
Ensign U. S. N.

From H. to 8. A. M.
Foggy first two hours changing into haze latter part of watch. Light airs from West.
H.C. Gearing
Lieut U. S. N.

From 8. A. M. to Meridian
Clear and warm. Light airs from W.N.W. and West.
Surgn J. A. Hawke U. S. N. returned from leave. By order of Cmdg Officer released J. A. McKinnon P.M. Made preparations for hoisting target. Finished repairs of Gun Cotton magazine. Received in Ordnance Department the following stores: last expended. Received from U.S.S.S. Yantic Ice. Williams, Seaman D.C. with his Hammock & effects other than those worn by him.
B. T. Walling
Lieut U. S. N.

From Meridian to 4 P. M.
Clear and warm. Light airs from W.N.W. and N.W. At 3m Navy Yard tug came alongside and took ship's launch alongside of Ord Dock ahead of "Vandalia". Transferred to Hospital the following men viz: P.P. Singer App, F.C. Johnson App, J. Hemmings App and Wm Hoover Seaman
A. T. Hechtlen
Ensign USN

From 4 to 8. P. M.
Hazy and pleasant. Light airs from N.W. By order of Cmdg Officer confined under sentence charge E. Peterson Sea and G.Y. Keating Eng 4c. for drunkenness. Also confined by order of Cmdg Officer to await finished action in his case C. Johnson 2 C. for fighting.
B. T. Walling
Lieut USN

From 8. P. M. to Midnight
Clear and pleasant. Light airs from N.W.
A. T. Hechtlen
Ensign U. S. N

Examined and found to be correct.

S. W. Markham.
Light U Navigator.

Moons Declination North 4th Last Quarter

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Navy Yard, Brooklyn New York

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1					W. by W.	1			30.08	77	76	73		bm	nmbs	10	
2					"	1			30.08	77	74	71		"	"	10	
3					W.	1			30.08	76	74	70		"	"	10	
4					"	1			30.07	76	73	70		"	"	10	
5					N. W.	1			30.09	76	72	69		o.c.	nmbs	0	
6					"	1			30.09	75	72	69		"	"	0	
7					N. by N. W.	1			30.10	74	72	68		"	"	0	
8					N.	1			30.10	74	72	68		"	"	0	
9					"	1			30.12	74	73	68		"	"	4	
10					"	1			30.12	74	74	69	70	bcg.	"	5	
11					N. W.	1			30.10	76	74	71		"	"	5	
Noon.					"	1			30.10	76	74	72		"	"	5	

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 550 "

Coal consumed during the preceding 24 hours, tons 4 11 lbs.

Coal remaining on hand at Noon, 1 4 1 " 16 4 1 "

P. M.																	
1					N. W.	2			30.10	77	74	73		bcm.	air cum	0	
2					S. W. by W.	2			30.11	77	74	74		bm.	"	0	
3					W. by W.	2			30.06	80	80	74		"	"	0	
4						2			30.06	80	80	74		"	"	0	
5					S. by W.	1			30.06	80	80	74		bj.	"	0	
6						1			30.06	80	80	74		"	"	0	
7					S.	1			30.06	80	80	74		o.c.	"	0	
8						1			30.06	80	80	74		"	"	0	
9					N.	1			30.06	80	80	74		bm.	"	0	
10					S. E.	1			30.06	79	76	73		bm	none	10	
11					"	1			30.06	78	76	73		"	"	10	
Mid.					"	1			30.05	77	76	73		"	"	10	

under the command of Commander T. F. Jewell, U. S. Navy,

Friday August 24th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences Fresh Cuttle H. A. M.
Clear with light hazy. Bright starlight. Light airs from W. S. W. and West. Barometer steady.

A. C. Saunderstone
Ensign U. S. N.

From 4 to 8 A. M.
Overcast. Light airs from N. N. W. and N. W. Received on board and issued to ships Comp about 153 3/4 lbs fresh beef 153 3/4 lbs beef stock and 153 lbs fresh bread.

P. F. Walling
Lieut U. S. N.

From 8 A. M. to Meridian
Cloudy and hazy. Light airs from South and W. at 9:30 exercised at Fire Quarters. By direction of Commander placed C. Fountain C. F. M. in double irons for three days for drunkenness on board ship. Jas Keating C. F. in double irons for five days for drunkenness on duty and C. Soderberg C. F. in solitary confinement on bread and water for three days for insolence to and striking Master-at-Arms.

A. A. Scudder
Ensign U. S. N.

From Meridian to 4 P. M.
Clear but hazy. Light breeze from N. W. first hour, shifting afterwards to S. W. by W. and W. S. W. Fired, at anchor, effects at auction. Stowing torpedo spars and placing gun cotton primers. Workmen from Dept of Equipment Navy Yard, repairing launch. Received in Ord. Dept. of this vessel from Naval Magazine, Ellis Island, one box of detonators for gun cotton primers.

A. C. Saunderstone
Ensign U. S. N.

From 4 to 8 P. M.
Overcast, hazy and warm. Light airs from S. and S. W.

A. A. Scudder
Ensign U. S. N.

From 8 P. M. to Midnight.
Overcast first hour. Clear afterwards. Hazy. Light airs from North first hour, shifting to S. E. Barometer steady.

A. C. Saunderstone
Ensign U. S. N.

Examined and found to be correct.

W. W. Adams.

Moons Declination N. 15° 4' Last Quarter

Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 30 Rate,

Navy Yard, Brooklyn New York

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1					S.W.	1			30.03	74	74	73		b.z.	nme	10	
2					"	1			30.03	74	74	72		"	"	10	
3					"	2			30.04	74	74	72		"	"	10	
4					"	2			30.04	76	74	72		"	"	10	
5					W. N. W.	1			30.02	76	72	70		b.c.t.	cir. cum	4	
6					"	1			30.02	74	72	71		"	"	4	
7					"	2			30.02	74	73	71		"	"	4	
8					"	2			30.02	74	74	71		"	"	4	
9					West	1			30.01	74	74	72		b.w.	nme	10	
10					N. N. E.	1-2			30.02	76	78	74		"	"	10	
11					N.	1-2			30.01	78	80	76		"	"	10	
Noon.					N. N. W.	2			30.02	78	80	76		"	"	10	

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 150 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, ~~400~~ "

Coal consumed during the preceding 24 hours, tons ~~400~~ lbs.

Coal remaining on hand at Noon, 141 " 1241 "

P. M.								
1			West	1	30.00	81	b.w.	nme 10
2			"	1	30.00	82	"	" 10
3			"	1	30.00	82	b.e.	cir cum 8
4			South	1	30.00	82	"	" 8
5			S. E.	1	29.98	83	b.w.	nme 10
6			S. S. E.	2	29.97	82	"	" 10
7			S. E. by S.	2	29.97	82	"	" 10
8			S. S. E.	2	29.98	82	"	" 10
9			"	2	29.99	82	b.	" 10
10			"	1	30.01	82	"	" 10
11			Calm	0	30.02	82	"	" 10
Mid.			S. by W.	1	30.01	81	"	" 10

under the command of Commander T. T. Jewell, U. S. Navy,
Saturday August 28th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Latter 4 A. M. Clear, warm and hazy. Light breez from S. W. veering to West. Heavy dew.

C. D. Galloway
Lieut U. S. N.

From 4 to 8 A. M. Weather hazy. Light airs from W. N. W.

Ensign U. S. N.

From 8 A. M. to Meridian Clear, warm and hazy. Light variable, airs to breez. Barometer steady. Mustered at Quarters at 9:30 A. M. Absent without leave, No. Lieut B. M., and Thos. E. Passmore 2 C. F. Received in Navigation one log line, and one measuring reel for sounding wire. Ensign F. J. Lomas left the ship on two days leave.

A. Commodore
Ensign U. S. N.

From Meridian to 4 P. M. Clear, hot and hazy. Light airs from West. Filled tanks with fresh water from Navy Yard hydrant. Pay Clerk Parker left the ship on leave of absence for 96 hours. Received from U. S. S. "Vermont" Gro Hunter Sea and Fly Fan Sea.

C. D. Galloway
Lieut U. S. N.

From 4 to 8 P. M. Clear, warm, getting hazy. Light airs to breez from S. E. to S. S. E. Barometer steady.

A. Commodore
Ensign U. S. N.

From 8 P. M. to Midnight Clear and warm. Calms and light airs from S. S. E.

C. D. Galloway
Lieut U. S. N.

Examined and found to be correct.

Noons Declination S 31° Last Quarter.

S. P. Abrahams.
Lieut and Navigator.

LOG of the United States Steamer "Essex", 80 Rate,

Navy Yard, Brooklyn New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	Force.	Heel.	Leeway.	BAROMETER. Height in inches.	Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	Air, Wet Bulb.	Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1					W. N. W.	1			30.018	0	74	74	70	b.y.	nmc	10	
2					"	1-4			30.038	0	74	74	69	"	"	10	
3					"	1			30.028	0	74	74	69	"	"	10	
4					S. W. by W.	2			30.004	0	74	67	64	"	"	10	
5					"	1			29.994	0	74	67	63	b.w.	"	10	
6					S. by W.	1			29.984	0	74	74	74	"	"	10	
7					W. N. W.	1			29.984	0	74	74	74	"	"	10	
8					S. W. by W.	1			29.994	0	74	74	75	"	"	10	
9					"	1			29.994	0	74	74	76	b.y.	"	10	
10					S. S. W.	2			29.994	0	74	74	76	"	"	10	
11					"	2			30.004	0	74	74	76	"	"	10	
Noon.					South	2			30.008	0	79	74	74	"	"	10	

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water ——— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1200 "

Coal consumed during the preceding 24 hours, tons 401 lbs.

Coal remaining on hand at Noon, 141 " 841 "

P. M.								
1			South	2	29.988	28	78	b.c. cumc 9
2			S. E.	2	29.988	28	78	" " 9
3			South	2	29.978	38	74	" " 9
4			"	2	29.968	18	76	" " 9
5			"	2	29.958	18	04	6 " 9
6			S. by E.	2-3	29.968	08	04	6 cir cumc 9
7			"	2	29.968	04	74	6 " 8
8			"	3	29.974	84	74	3 " 8
9			South	2	29.984	74	64	3 " 9
10			"	2	29.984	74	76	43 cumc 9
11			"	2	29.984	76	54	3 " 8
Mid.			"	2	30.004	76	74	3 circum 0

under the command of Commander T. F. Jewell U. S. Navy,

Sunday August 29th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences as Tutuila H.A.M.
Clear, overhead hazy, around horizon. Light airs and breezes from W.N.W. and S.W. by W.

H.H. Gearing
Lieut U.S.N.

From H. to 8 A.M.
Clear, warm and hazy. Light variable airs. Barometer steady. Received in P. of. Dept. for issue to Crew, 150 lbs each of fresh beef and vegetables, and 160 lbs bread.

E. Townsend
Ensign U.S.N.

From 8 A.M. to Meridian
Clear, hazy and hot. Light airs from S.S.W. and South. At 10 mustered at Quarters. No Liberty. J. Hackett 2 C.F. F.E. Lawrence 2 C.F. absent without leave. At 10, Gen'l inspection of ship and crew by Com'd'g Officer. At 10 5' Com'd'g Officer held divine service. Released from confinement C. Torkelson 2 C.F. by order of Com'd'g Officer.

C.T. Galloway
Lieut U.S.N.

From Meridian to 4 P.M.
Clear and warm. Light breeze from South.

H.H. Gearing
Lieut U.S.N.

From 4 to 8 P.M.
Clear and warm. Light breeze from S.S.E. No Liberty returned on board at hours overtide.

C.T. Galloway
Lieut U.S.N.

From 8 P.M. to Midnight
Clear until end of watch when clouds over cast air. cumulus clouds. Light breeze from South.

H.H. Gearing
Lieut U.S.N.

Examined and found to be correct.

W.W. Gorham.
Lieut U.S.N. Navigator.

Moons Declination N 8° 2' Neir Moon

LOG of the UNITED STATES Steamer "Essex" 3d Rate,

Navy Yard, Brooklyn, New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.					S. E.	1			30.00	45	45	43		c.	cumr		
1					"	1			30.00	45	44	43		"	mist	0	
2					"	1			29.99	45	45	43		"	"	0	
3					"	1			29.98	44	44	43		b.c.	cumr	2	
4					E. by S. E.	1			29.98	48	44	43		v.c.	mist	0	
5					S. E.	1			29.96	46	43	42		a.p.c.	"	0	
6					"	1			29.91	46	44	43		b.c.	"	4	
7					"	2			29.91	46	44	43		"	"	1	
8					"	2			29.98	46	45	44		b.c.p.	"	2	
9					S. by E.	3			29.94	45	45	44		"	"	2	
10					S. by E.	3			29.96	46	46	45		"	"	4	
11					S. E.	3			29.96	46	46	45		c.p.	"	0	
Noon.					"	2-3			29.96	46	44	45					

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water ~~during~~ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 550 "

Coal consumed during the preceding 24 hours, tons lbs.

Coal remaining on hand at Noon, 141 " 1241 "

P. M.																	
1					S. E. by S.	3-5			29.93	46	46	44		b.c.q.	cumr mist	1	
2					"	4-5			29.90	44	44	44		"	cir cumr	5	
3					"	4-5			29.88	44	44	44				8	
4					"	4-5			29.84	44	44	44		b.c.	"	6	
5					"	4			29.84	44	44	44		"	"	6	
6					S. S. E.	3			29.86	46	46	43		c.	cumr mist	0	
7					"	3			29.86	48	46	44		c.n.	"	0	
8					"	3			29.84	44	44	46		c.	"	0	
9					S. E.	2			29.86	44	44	44		"	"	0	
10					"	2			29.86	44	45	44		"	"	0	
11					S. S. E.	2			29.86	44	46	44		"	"	0	
Mid.					"	2			29.83	44	46	46		"	"	0	

under the command of Commander T. F. Jewell, U. S. Navy,
Monday August 30th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends H. A. M.

Overcast, with light airs from S.E. & S. Tug "Nina" came in at 1.10.

P.T. Walling
Lieut-U.S.N.

From H. to 8. A. M.

Overcast with passing showers first part, unsettled weather latter part. J. Hackett 2. C. F. returned on board 2 at 4 hours overtime.

C.D. Galloway
Lieut-U.S.N.

From 8. A. M. to Meridian

Cloudy with frequent passing showers. Gentle breeze from S.E. to S. by E., with moderate squalls, accompanied by rain last hour. At 9 had Morning Quarters, divisions reported ready in times as follows, viz; 1st 3m 20s, 2d 3m 58s, 3d 3m 10s, Mca 2m 0s, Powd. 3m 30s, Engrs 3m 20s, Marines 2m 0s. Absent without leave T. E. Passmore 2d C. F. By order of Surdg Officer the following named men were given the following punishment previously assigned, P. Rutledge 1 C. app, solitary confinement on bread & water for two days for absence without leave & W. C. Hammond 1 C. app same punishment for three days for same offence. By order of Surdg Officer Taki Kichi Lds, special service, was placed under sentry charge to await investigation on charge of theft. The Steamer "Boston" intended for the Naval Service came to the Yard at 10 a.m. At 11 30 hauled off. Many Yard workmen at work on the deep-sea sounding machine & Plumbers from Yard engaged on lead lining in ship's head. Engineers dept filling boilers with fresh water.

H.C. Gearing
Lieut-U.S.N.

From Meridian to 4 P.M.

Generally clear with moderate to stiff breezes in squalls from S.E. by S. Transferred to U.S. Naval Hospital, Brooklyn, N.Y. for treatment-S.M. Lee Feaver 2 C.B, H. Taylor 1st App'r C. with effects & hammocks. Received in Equipment-Dept 100 hammocks, 14 lbs 2½" lanyard stuff, 50 lbs 1½" lanyard stuff, 40 lbs Oakum, 20 hammock pings; in Engineers 9000 Gals fresh water to fill boilers, in Navigation 1900 Gals fresh water. Plumbers at work on head. Exchanged Barometers at Navigation, the original being leaky. Joiners at work on bilge extension. C. Parker Sea, left working party at Navy Yard without authority or permission.

P.T. Walling Lieut-U.S.N.

From 4. to 8. P.M.

Cloudy with light rain 3d hour. Gentle breeze from S.S.E. At sunset sent down light yards. T.E. Passmore 2 C.F. returned to the ship at this quarters.

H.C. Gearing.
Lieut U.S.N.

From 8. P.M. to Midnight-
Cloudy. Light breeze from S.E. & S.S.E.

P.T. Walling
Lieut U.S.N.

Examined and found to be correct.

T.T. Williams.
Lieut-E.N. Navigator.

Moors Seelmaker N 3 5-1 Fleet Mess.

LOG of the UNITED STATES Steamer "Essex" 3d Rate

Navy Yard, Brooklyn New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.															cumu		
1					S S E.	2			29.84	47	47	45	43	o.c.	nimb	0	
2					"	2			29.83	47	47	45	43	"	"	0	
3					"	2			29.81	47	64	52	43	b.c.	cumu	4	
4					"	2			29.81	47	64	52	43	"	"	5	
5					South	2			29.80	47	47	45	43	cycu.	nimb	0	
6					S S W.	2			29.84	47	47	45	43	bcym.	"	1	
7					S W.	2			29.84	47	47	45	43	"	"	5	
8					"	2			29.85	47	47	46	44	bc.	"	2	
9					"	1			29.86	47	47	46	44	ocpcu.	"	3	
10					West	2			29.86	47	47	46	43	ocp.d.	"	2	
11					N. W.	2-3			29.86	49	47	45	43	o.cu.	nimb	0	
Noon.					"	2-4			29.86	49	47	45	41	o.cp.	"	0	

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water Received during the preceding 24 hours, 1950 "

Water remaining on hand fit for use at Noon, 3350 "

Coal consumed during the preceding 24 hours, tons ~~400~~ lbs.

Coal remaining on hand at Noon, 141 " 41 "

P. M.																	
1					N. W.	2			29.86	46	45	42		o.c.	nimb	0	
2					"	2			29.88	47	45	43		o.p.	"	0	
3					"	2			29.91	49	44	42		o	"	0	
4					"	2			29.89	46	42	42		o.cu.	"	0	
5					"	1			29.89	46	44	42		"	"	0	
6					"	1			29.89	46	44	42		o.cp.	"	0	
7					N. N E.	3			29.87	46	43	40		o.c.	"	0	
8					N. N. W.	2			29.86	46	68	42		"	"	0	
9					"	2			30.00	46	41	68		o.cp.	"	0	
10					N. W.	3			30.00	45	41	68		"	"	0	
11					"	3			30.02	46	41	06	2	"	"	0	
Mid.					"	3-4			30.04	44	68	64		"	"	0	

under the command of Commander P. F. Harrell, U. S. Navy,

Tuesday August 31st, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences 1st Cutter & A. M.
Cloudy with light breeze from S. S. E.

A. T. Beardsley
Ensign U. S. N.

From 4 to 8 A. M.
Hazy around horizon clearing away after sunrise. Wind a light breeze from South hauling to S. E. Relieved in Cabin Dept. prisoners the crew 150 lbs fresh bread. 150 lbs each of fresh beef & fresh vegetables.

H. L. Gregory
Lieut U. S. N.

Received on board aug 31st
From 8. AM. to Meridian
Ordnance Department
31 S. W. Belts for Hotchkiss Rifles
12 Brackets for Battle Axes.
In Paymasters Department
1/2 lbs Butter - 96 lbs Corned Beef
288 " Ham - 144 " Pickles
Received in board in Pay. Dept
From Meridian to 4 P. M.
5 1/3 lbs Sugar - 200 lbs Beef
392 " Flour - 200 " Rice
200 " Pork - 2 qts Jams Mallards
135 Jars Beans - 32 " Vinegar.

Light breeze prove
ed at divisional drills.
ous employment by
ork, in board. at 10 30 A.
battery. Received stores
ves.

D. Galloway
Lieut U. S. N.

to intervals Light breez
Service Take Kiski
C. H. Langdon P. M.

A. T. Beardsley
Ensign U. S. N.

N. W.
D. Galloway
Lieut U. S. N.

n N. W. and N. N. W.

A. T. Beardsley
Ensign U. S. N.

Afforms Declination 9 35 East Noon.

Examined and found to be correct.

A. V. Wadham.
Lieut and Navigator.

nder the command of Commander P. F. Harrell, U. S. Navy,
Tuesday August 31st, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Cutie H A. M.
Cloudy with light breeze from S. S. E.

A. T. Peabody
Ensign U. S. N.

From H. to 8. A. M.
Hazy around horizon, clearing away after sunrise. Wind a light breeze from South hauling to S. W. Received in Pay Dept provisions for crew 250 lbs fresh bread, 150 lbs each of fresh beef and fresh vegetables.

H. C. Gearing
Lieut U. S. N.

From 8 A. M. to Meridian.
Overcast with frequent passing showers. Light breeze from N. W. by N. At 9.30 A. M. mustered at Quarters and exercised at divisional drills. Released R. Fountain C. G. M. and G. H. Keating Eng Jr from confinement by order of Comdg Officer. Mechanics from Yard at work on board. At 10.20 a salute of 17 guns was fired from Ordnance dock battery. Received stores in Ordnance and Pay Departments, as per list appended.

C. D. Galloway
Lieut U. S. N.

From Meridian to 4 P. M.
Cloudy and overcast raining except at short intervals. Light breeze from N. W. Discharged from this ship and the Naval Service Jake Kishi Lee. Received from Barracks A. E. Knox P. M. and C. H. Langan P. M. a few Navy Yard workmen engaged on board.

A. T. Peabody
Ensign U. S. N.

From 4. to 8. P. M.
Overcast and raining. Wind moderate from N. W.

C. D. Galloway
Lieut U. S. N.

From 8 P. M. to Midnight
Cloudy. Cutter to moderate breeze from N. W. and N. N. W.

A. T. Peabody
Ensign U. S. N.

Moon's Declination 8 35' North

Examined and found to be correct.

A. V. Wadham.
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Navy Yard, Brooklyn New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1					N. W.	4			30.04	42	62	62	63	b.m.	mist	3	
2					"	4			30.04	42	61	66	62	"	"	3	
3					West	4			30.05	42	60	65	62	"	"	4	
4					"	4			30.02	46	60	65	62	"	"	5	
5					N. W.	4			30.05	46	61	64	61	b.c.	cir cum	8	
6					"	3			30.18	46	63	60		"	"	8	
7					N. W. by W.	3			30.21	46	63	59		"	nmc	10	
8					"	3			30.21	62	63	60		"	"	10	
9					N. N. W.	3-4			30.26	64	66	60		"	"	10	
10					"	3			30.37	40	68	65		b.c.	cum	9	
11					"	4			30.38	41	69	65		h.	nmc	10	
Noon.					"	4			30.39	42	70	69		b.c.	cum	9	

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 3111 "

Coal consumed during the preceding 24 hours, tons 4 lbs.

Coal remaining on hand at Noon, 110 " 531 "

P. M.										
1					N. N. W.	30.28	42	70	68	b.c.g.	cir cum	7
2					"	30.29	43	70	63	"	"	8
3					"	30.30	42	70	63	"	"	8
4					"	30.30	42	70	64	"	"	8
5					"	30.34	42	70	64	b.c.	"	8
6					N. W.	30.35	41	70	64	"	"	8
7					"	30.33	41	69	63	"	"	8
8					"	30.33	41	69	62	"	nmc	10
9					"	30.41	40	68	62	h.	"	10
10					"	30.42	40	68	62	"	"	10
11					N. N. E.	30.44	69	66	60	"	"	10
Mid.					"	30.45	48	64	58	"	"	10

under the command of Commander T. T. Jewell, U. S. Navy,
Wednesday September 1st, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Until 4 A.M.
Clear and hazy. Cool. Moderate breeze from N.W. and West.
Barometer 30.04 to 30.04.
H. C. Townsdone
Ensign U.S.N.

From 4 to 8 A.M.
Clear and cool. Gentle breezes from N.W. and N.W. by N. and gentle to moderate breeze from N.N.W. Received in Pay. Dept. and issued to Crew 150 lbs of fresh bread, 150 lbs vegetables and 120 lbs fresh bread. At 7.50 signalled to "Vermont" 5 to 6. "Vermont" answered 9 o't. At 8 crossed T.Y. Yards and loosed sail to a bowline.
P.F. Harding
Lieut U.S.N

From 8 A.M. to Meridian
Clear and cool. Gentle to moderate breeze from N.N.W. At 9 a.m. Slackened sail at 9.30 inspected at Quarters and exercised division at Open routine. A few Navy Yard workmen engaged on board. By order of Fmdg Officer relieved from confinement J. Rutledge P.A.E.C. and declared C. Parker Sea, a vacancy from this date. Received in Pay. Dept 100 Scrub brushes, 50 Shoe Do 144 oz S.E. Buttons 100 Gr Pearl Buttons, 100 tin Pans, 100 Spoons and 60 Blacking Brushes.
A.N. Scudder
Ensign U.S.N.

From Meridian to 4 P.M.
Clear and bright. Wind blowing in squalls from N.N.W. gentle to moderate breeze. Barometer 30.28 to 30.32. Received from U.S.R.S. "Vermont" for Horan (1 C.F.) A.P. Hansen Sea, Peter Heitzel (Las) Walter Foley (Las) M.J. Carroll (Las), Michael Fitzgerald (Las) and Chas. Cunningham (Las). Fitting Horse blocks Received in Pay. Dept the following articles, 1000 lbs Salt-Water Soap, 200 White Hats, 25 Working Suits, 10 prs Calf Shoes. Received in Navigation Dept One U Ensign #4. Furled sail at 3 o'clock. Sent boat sails.
H.C. Townsdone
Ensign U.S.N.

From 4 to 8 P.M.
Clear, cool and pleasant. Gentle breeze from N.W. Making preparations for sea. At sunset sent down topgallant yards and masts. Scraped masts and housed them.
C. Galloway
Asst U.S.N.

From 8 P.M. to Midnight
Clear Bright and Cold, with gentle to moderate breeze from N.W. first part, N.N.E. afterwards. Hands set at 8.35.
H.C. Townsdone
Ensign U.S.N.

Examined and found to be correct.

Moons Declination 9° 5' 30" First Quarter.
A.T. Wadhams
Asst U.S.N. Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Navy Yard, Brooklyn New York.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1					N. N. W.	5			30.463	66	56			h.	nmc	10	
2						5			30.496	66	05			"	"	10	
3					N. E.	4			30.496	59	54			"	"	10	
4					"	4			30.506	46	05			"	"	10	
5						4			30.486	59	56			b.c.	cir cum	3	
6					N. N. E.	4			30.506	39	55			"	"	3	
7					N. E.	3			30.536	26	05			"	"	4	
8					"	3			30.536	36	54			"	"	4	
9					"	2			30.536	69	59			"	"	8	
10					"	2			30.556	46	61			"	"	8	
11					N. N. E.	2			30.556	86	63			b.cm	"	9	
Noon.	Standing down East River, N. Y.				N. by W.	1			30.556	86	64			"	"	9	

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

29. 1745

Position at 8 a. m.: Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M.: Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 400 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 3600 "

Coal consumed during the preceding 24 hours, 3 tons 1950 lbs.

Coal remaining on hand at Noon, 136 " 861 "

P. M.											
1	Standing down		S. by E.	3	30.546	96	63	b.c.f	cir cum	9	S.
2	Main Channel.		E. by N.	3	30.547	04	63	"	"	9	"
3	Lower Channel		S. by W.	3	30.527	42	63	"	"	5	"
4	Standing in circle		S. S. E.	3	30.537	26	63	"	"	5	"
5	for compass obs.			3	30.537	16	63	"	"	6	"
6	2 0	E. S. E. ½ E.	S. E. by S.	2	30.557	06	62	"	"	6	"
7	9 0	"	"	2	30.557	06	62	"	"	6	"
8	8 5	"	"	2	30.567	06	61	"	"	6	"
9	9 2	S. E. by E.	"	2	30.476	96	61	b.c.	nmc	10	"
10	8 5	"	"	2	30.496	96	61	h.	"	10	"
11	8 5	"	S. S. E.	2	30.496	86	61	"	"	10	"
Mid.	8 0	"	E. by N.	2	30.496	86	60	"	"	10	"

under the command of Commander T. F. Jewell, U. S. Navy,
Thursday September 2nd, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Latitude 4 A.M.

Clear, cool and pleasant. Light breeze from N. N. W., veering to N. N. E.

E. D. Galloway
Lieut U. S. N.

From 4 to 8 A.M.

Cloudy and cool first part of watch, then clear and pleasant. Ground tackle moderate breeze from N. E. and N. N. E. at 6, started fires under all boilers.

A. F. Walker
Ensign U. S. N.

From 8 A.M. to Meridian

Generally clear bright and warm. Light breeze from N. E. first part falling to light airs from N. N. E. to N. by W. Barometer 30.53 to 30.55. Rigging stopped, fittings of steam launch and hoisted her. Prepared for sea. By order of Comdg Officer relieved W. C. Hammond I. C. app. from confinement. At 11.15 called Hands, unmoored ship. Left Ordnance Dock Navy Yard at 11.23 and stood down East River. At end of watch off Battery. Draft of ship, Fwd 14.4" Aft 16.5". Took on board one (1) case of Herreshoff Launch fittings for U. S. S. "Brooklyn". Revolutions 40. Pressure 53 lbs.

A. C. Sowden
Ensign U. S. N.

From Meridian to 4 P.M.

Clear, hazy and pleasant. Standing down channel under steam, alone. Comdg Officer at the Helm. At 3.00 slowed, down and began taking cross bearings and observations for determination of compass variation. At 1.00 sent up t'gallant masts. Put on chafing gear and made other preparations for sea. Revolutions 39 Pressure 53.

E. D. Galloway
Lieut U. S. N.

From 4 to 6 P.M.

Pleasant with light haze around horizon. Light breeze from S. S. E. to S. E. by E. At 5.34 finished compass observations, and count, ahead full speed on course E. S. E. 1/2 E. Secured anchors for sea. At 6.00 took departure and put over patent log. Sandy Hook Light Ship bearing S. W. by W. 3/4 W., distant 2 miles and patent log reading 6 3/4 knots. Revolutions 37.5. Pressure 5 lbs.

H. C. Graves
Lieut U. S. N.

From 6 to 8 P.M.

Clear and pleasant. Light breeze from S. E. by E. Ship on course S. E. by E. At sunset lost sight of Sandy Hook Light Ship, bearing (mag) W. N. W. 3/4 W. At 7.00 lost sight of Highland Lights bearing W. 1/4 N. Smooth sea. Long Island and Jersey Coast visible at sunset. Revolutions 40. Pressure 5 lbs.

L. P. Waring
Lieut U. S. N.

From 8 P.M. to Midnight

Clear bright and cool. Moon set at 9.30. Light breeze from S. E. by E. and S. S. E. shifting last hour to E. by N. Under steam alone till 11.00, on course S. E. by E. (p.c.) Steam 54 lbs. Revolutions 41. Set fish at 11.00.

A. F. Walker
Ensign U. S. N.

Examined and found to be correct.

A. V. Wadhams
Lieut U. S. N. Navigator.

Mean Declination 9° 40' East Quarter

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to Gibraltar, Spain.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
Sg. 780 N 40° W 72-46 1	8	5	125.5	S.E. by E.	E. N. E.	2			30.46	96	56	0		b.	cirro	10	9
2	8	0	133.0	"	"	2			30.48	68	65	60		"	"	10	"
3	7	0	140.5	"	"	2			30.50	68	65	60		"	"	10	"
4	6	0	146.5	"	"	2			30.50	68	64	60		"	"	10	"
5	6	4	152.6	"	"	3			30.50	67	65	60	69	b.c.	cir	9	"
6	6	4	62.8	"	"	4			30.50	67	65	61	69	"	cirro str	9	"
7	6	4	71.4	"	"	4			30.50	67	66	61	43	"	"	8	1.
8	6	4	79.4	"	"	4			30.50	68	66	61	43	"	"	7	"
9	5	0	86.4	"	"	4			30.50	68	68	63	43	"	"	5	"
10	Sounding				"	4			30.49	68	68	63	43	"	"	4	"
11		50			"	4			30.48	68	68	63	43	"	"	3	"
Noon.	5	4	91.8	S. E. 1/2 S.	"	4			30.48	68	68	63	43	"	"	3	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. N. 39 ° 13. "
Longitude by D. R. W. 71 ° 04. "
Sg. 780 Latitude by observations of ⊙ N 39 ° 32. "
Longitude by chronometer from Forenoon Observations of ⊙ W 71 ° 39. "

Position at 8 a. m. Latitude by ° ' "
Longitude by ° ' "

Position at 8 P. M. Latitude by D. R. N. 39 ° 04. "
Longitude by D. R. W. 71 ° 24. "

Current during the time, 1 knots 1 tenths per hour, setting to the N. E.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 400 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2400 "

Coal consumed during the preceding 24 hours, 11 tons 1460 lbs.

Coal remaining on hand at Noon, 124 " 1641 "

P. M.												
1	5	6	99.0	S. E. 1/2 S.	E. N. E.	4	1	30.48	68	68	b.c.	cirro 6
2	5	4	104.4	"	"	4	1	30.48	68	67	"	" 7
3	3	3	107.7	S. E. 1/2 E.	N. E. by E.	4	1	30.49	68	67	"	cir cirro 8
4	3	4	111.0	S. E. 3/4 E.		4	1	30.49	68	67	"	" 9
5	3	8	116.0	S. E. 1/2 S.	E. N. E.	4	3/4	30.49	68	67	"	" 9
6	4	3	120.7	S. E. by S.	E. by N.	5	3/4	30.48	67	66	"	" 9
7	3	2	124.0	S. E.	E. N. E.	5	3/4	30.48	68	66	"	" 9
8	3	4	128.6	S. E. 1/2 S.	"	4	3/4	30.49	69	66	"	" 9
9	5	0	133.4	S. E. 3/4 S.	E. by N.	5	1/2	30.50	68	66	"	cirro nimb 8
10	5	2	139.0	S. E. by S.	"	4-6	1/2	30.50	68	66	"	" 6
11	3	6	142.2	S. S. E. 3/4 E.	East	4-6	3/4	30.48	68	66	"	" 5
Mid.	4	8	146.2	"	"	4-6	3/4	30.46	68	66	"	" 7

under the command of Commander T. F. Jewell, U. S. Navy,
Friday September 3d, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Ends 4 A.M.
Clear and pleasant. Light breeze from E.N.E. Seas smooth. Light swell from S.E. at 1/15 set Main Topsail, Spanker, foretopmast Staysail and Flying Jt. Revolutions 43. Steam Pressure 44.5.
C.P. Galloway
Lieut U.S.N.

From 4 to 8 A.M.
Clear and pleasant. Moderate increasing breeze from E.N.E. with moderate piling sea. At 4.40 set Foresail. Steering course E.E.by.E. Average steam pressure 65 lbs. Revolutions 46.
H.E. Gearing
Lieut U.S.N.

From 8 A.M. to Meridian.
Partly cloudy. Cool. Moderate breeze from E.N.E. At 8.45 took in Foresail and Double Reefed Sails and put ship before the wind preparatory to Sounding. Hauled in patent log reading 86.4 Took two casts in succession, 5/15 at 5 fms bottom, 0 ooze. At 11.15 made sail to Topsails and Hauled by the wind. Steering free and by remainder of watch. Patent log read 91.8 at end of watch. Steam pressure 45. Revolutions 44
H.E. Gearing
Lieut U.S.N.

From Meridian to 4 P.M.
Generally clear, bright and pleasant. Moderate breeze from E.N.E. & N. Ebb E. Barometer steady. Moderate sea. At 2 o'clock stopped engines and uncoupled propeller. Hauled all fires except under boilers 1 and 3. 1st 2d and 3d Divisions of watch below fired at target with air gun. At end of watch under Topsails, Foresail Jt. and Spanker. Average steam 45. Revolutions 31.3.
Ensign U.S.N.

From 4 to 6 P.M.
Clear and pleasant. Moderate to fresh breeze from E.N.E. and E.by.N. Moderate swell from S.
C.P. Galloway
Lieut U.S.N.

From 6 to 8 P.M.
Clear, fine weather. Fresh decreasing to moderate breeze from E.N.E. At 6 o'clock called all Hands and exercised at reefing and hoisting. At 6.40 had Fire Quarters, 1st stream 58", 2d 2.46, 3d 3.16. Steering by the wind.
H.E. Gearing
Lieut U.S.N.

From 8 P.M. to Midnight.
Generally clear. Moderate to fresh breezes from East and E.by.N. Stiff breeze from E.by.N. Moderate sea and swell. At 10.10 took single reef in Topsails. Steering by the wind. Condensing. Pitching and rolling very easily. Propeller making 13.11 turns.
Lieut U.S.N.

Examined and found to be correct.

Moon's Declination S 13° 09' First Quarter.

Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to Gibraltar, Spain.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	3	5	50.5	S. E. 1/2 S.	E. N. E.	3		1	30.48	68	64	60	70	b. c.	nmc	10	H.
2	3	8	54.5	"	"	4-5		1	30.48	64	64	60	70	"	"	10	"
3	2	5	57.7	"	"	4		1 1/2	30.48	68	68	64	70	b. c.	cir cumn	9	"
4	2	6	60.5	"	"	4		1 1/2	30.48	68	68	65	70	"	"	9	"
5	2	8	63.0	S. E by S.	"	4		1 1/2	30.44	68	68	65	71	b. c. y.	"	4	"
6	3	2	66.0	"	"	4		1 1/2	30.44	68	68	64	72	"	cir cum-nmb	3	"
7	3	0	68.5	"	"	4		1 1/2	30.44	69	69	64	72	"	"	5	"
8	3	5	73.5	"	"	4		1 1/2	30.44	70	70	68	72	"	"	2	"
9	4	2	77.3	S. E. 3/4 S.	"	4		1	30.45	70	70	69	72	"	"	3	"
10	4	5	82.0	"	"	4		1	30.44	70	71	69	72	"	"	2	"
11	4	1	86.4	S. E by S.	E by N.	4		1	30.46	70	71	69	72	"	"	2	"
Noon.	4	5	89.8	"	"	4		1	30.46	72	72	70	72	"	"	2	"

Course and distance made good since preceding noon by observations, S. E. 1/2 S. 54 knots tenths.

Position at Noon:
- Latitude by D. R. — N. 38 ° 12 " "
- Longitude by D. R. — W. 40 ° 24 " "
- Latitude by observations of ⊙ — N. 38 ° 50' "
- Longitude by chronometer from Forenoon Observations of ⊙ — W. 40 ° 56' "

Dy. 780

Position at 8 a. m.:
- Latitude by D.R. — N. 38 ° 13' "
- Longitude by Chron do do do do — W. 41 ° 08' "

Position at 8 P. M.:
- Latitude by D.R. — N. 38 ° 13' "
- Longitude by Chron P. M. do do — W. 40 ° 41' "

Current during the time, 1 knots 9 tenths per hour, setting to the N. N. W. 3/4 W.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 250 gallons.

Water ——— during the preceding 24 hours, 1250 "

Water remaining on hand fit for use at Noon, 3350 "

Coal consumed during the preceding 24 hours, 1 tons 360 lbs.

Coal remaining on hand at Noon, 123 " 1281 "

P. M.																	
1	6	0	94.5	S. E. by S.	E. by N.	4-5		1/2	30.46	73	71	70	73	b. c. y.	cir cum	3	H.
2	6	2	104.	S. E. 3/4 S.	"	4-6		1/2	30.45	73	71	70	73	"	"	5	"
3	6	0	10.5	"	"	4-6		1/2	30.46	73	71	70	73	"	"	3	"
4	5	6	16.3	"	"	4-5		1/2	30.46	73	71	70	73	"	"	4	"
5	5	0	22.3	"	E. N. E.	4		3/4	30.45	73	72	71	74	b. c. m.	"	5	"
6	5	0	27.5	S. E. by S.	E. by N.	4		3/4	30.46	73	72	71	75	"	"	5	"
7	4	5	33.8	"	"	4		3/4	30.44	73	73	71	75	"	cum mnb	3	"
8	3	8	37.5	S. E. 1/2 S.	"	4		3/4	30.46	74	73	72	75	"	"	3	"
9	4	4	42.5	"	E. N. E.	4		3/4	30.44	74	73	72	75	"	"	3	"
10	4	4	47.1	"	"	4		3/4	30.44	74	74	72	75	"	"	5	"
11	4	6	52.1	S. E. 3/4 E.	N. E. by E.	4		3/4	30.44	74	73	72	75	"	"	2	"
Mid.	4	4	56.9	S. E. 1/2 S.	E. N. E.	4		3/4	30.44	75	73	72	75	"	"	5	"

under the command of Commander T. F. Jewell, U. S. Navy,

Saturday September 4th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Ends 4 A.M.

Generally clear bright cool. Light cir cumulous latter part. Lightning from 9th W/ & E. Stiff to moderate breeze from E.N.E. Barometer steady. Moderate sea. Ship under single reefed topsails, foresail, jib and spanker, fires & by making 9 E. 1/2 S. Course E. 1/2 S. (pc).

A. M. Lecraw
Ensign U. S. N.

From 4 to 8 A.M.

Clear, hazy and pleasant. Moderate breeze from E.N.E. Moderate swell from 9th. Smooth sea at 6.30 Tanks being full stopped distilling at 7.30. Shook reefs out of topsails.

Chas. Galloway
Lieut U. S. N.

From 8 A.M. to Meridian.

Cloudy, hazy and pleasant. Moderate breeze from E.N.E and E. by N. Moderate swell from E. Hauled fires and lowered smoke stack. Rent and set Mainsail. Broke out fore hold and discovered water there. At 9 A.M. went to Quarters and inspected Clothing of the crew. Patent log at end of watch 89.8. Boatswain's Mate Officer T. McMahon & Ward was, directed to seaman.

D. H. Gearing,
Lieut U. S. N.

From Meridian to 4 P.M.

Cloudy hazy around horizon. Moderate Breeze from E by N. Fires hauled in port pack. Restowed fore hold. Pumping out ship, 13 1/2 in of water in fore hold, 3 in aft.

D. H. Gearing
Lieut U. S. N.

From 4 to 6 P.M.

Generally cloudy and misty. Moderate breeze from E. by N. and E.N.E. Sea moderate. Barometer steady. Broke out fore hold and pumped out with hand pump. At end of watch fore peak dry, 8 in in fore hold and 3 inches aft. Pumping out ship at end of watch.

A. M. Lecraw
Ensign U. S. N.

From 6 to 8 P.M.

Fair and pleasant. Light to moderate breeze from E.N.E. Smooth sea. Cleared Gunboat and allowed water from passage to well. At end of watch much water in fore hold, 3 in in well. Moonlight. Ready duo.

Chas. Galloway
Lieut U. S. N.

From 8 P.M. to Midnight

Generally clear and pleasant. Moderate swell from E.N.E with moderate sea. Barometer steady at 30.4. Mom Set at 10.40. Crossed T.Y. Yards and Set Main T.Y. Sail at 10.50 and Fore T.Y. Sail at 11.55. Sounding of pumps wells during watch as follows: 9 00, 3" aft; 9 30 3" fwd, 5" aft; 10 00, 3" fwd, 6" aft; 10 30 4" fwd, 6" aft; 11 00 5" fwd, 7" aft; 12 00, 6 1/2" fwd, 8" aft. From 11 00 to 12 00 Carpenter at work trying to make bilge pump work. Pump not working at 12 00.

D. H. Gearing
Lieut U. S. N.

Examined and found to be correct.

Moon's Declination 9 / 55 / First Quarter

T. F. Jewell
Lieut Commander
Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to Gibraltar, Spain.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	4	8	61.3	S.E. 1/4 S.	E. N. E.	4		1/4	30.40	45	44	43	45	b.cu.	cumu nimb	2	M.
2	4	8	66.5	S.E. 3/4 E.	N. E 1/2 E.	4		1/4	30.40	45	44	43	45	"	"	6	"
3	5	2	71.5	"	"	4		1/4	30.38	46	45	43	49	"	"	5	"
4	5	0	76.5		"	4		1/4	30.36	47	46	44	50	"	"	5	"
5	4	4	80.5	S. E.		3-4		1/2	30.35	46	46	44	50	"	"	5	"
6	3	6	84.4	"	E. N. E.	3		1	30.36	47	46	46	50	b.c.	"	5	"
7	2	0	86.5	E 1/2 S.	N. E. 1/2 N.	2		2	30.36	46	44	44	50	"	"	3	"
8	1	8	88.0	Cask	N. N. E.	2		2	30.34	48	44	46	50	"	"	3	"
9	0	5	89.5	E. S. E.		2		2	30.36	49	44	45	50	"	"	5	"
10	2	5	89.4	S. S. E.	E. N. E.	1-2		2	30.40	50	50	46	50	"	"	5	"
11	3	6	95.4	S.	E. 1/2 S.	2		2	30.40	50	50	46	51	"	"	5	"
Noon.	2	5	96.1	S. 1/2 W.	S. E. 1/2 E.	2		2	30.40	51	50	47	51	"	"	5	"
P. M.																	
1	1	5	98.4	N. E.	S. E. 1/2 E.	2		2	30.44	51	50	47	51	b.cu.	cumu nimb	5	M.
2	1	5	94.4	N. E. 3/4 N.		1-2		2	30.40	51	50	47	51	"	"	4	"
3	1	4	98.4	N. N. E. 1/2 E.	E. S. E.	2		2	30.43	51	50	47	51	"	"	5	"
4	2	5	1.2	N. E. 1/2 N.	S. E. 1/2 E.	3		2	30.43	51	49	47	50	"	"	5	"
5	3	2	5.2	N. E.	E. 1/2 S.	3-4		1 1/2	30.39	51	49	47	50	"	"	4	"
6	4	2	9.4	N. N. E. 1/4 E.	"	4		1 1/2	30.40	51	48	45	50	"	"	2	"
7	4	0	14.2	N. E. 1/2 N.	"	4		1	30.40	51	49	45	49	b.cu.	"	3	"
8	4	0	19.2	N. E. 1/2 E.	S. E. 1/2 E.	4		1	30.39	51	49	49	49	b.cl.	"	3	"
9	3	8	23.5			3		1	30.40	50	49	45	46	b.cu.l.	"	3	"
10	4	0	28.5	N. E. 3/4 N.	E. S. E.	3		1/2	30.41	50	49	49	45	"	"	3	"
11	3	3	32.6	N. E. 1/2 N.	E. 1/2 S.	2		1/2	30.41	50	46	44	46	"	"	4	"
Mid.	2	1	34.6	N. N. E. 1/2 E.	"	1-2		1/2	30.40	50	48	43	45	"	"	4	"

Course and distance made good since preceding noon by observations, S. E. 1/4 E. 46 knots. tenths.

Position at Noon:
- Latitude by D. R. — N. 34 . 3 "
- Longitude by D. R. — W. 69 . 41 "
- Latitude by observations of ⊙ — N. 38 . 00 "
- Longitude by chronometer from Forenoon Observations of ⊙ — W 69 . 44 "

Position at 8 a. m.
- Latitude by D.R. — ° ' "
- Longitude by Chro do do do — ° ' "

Position at 8 P. M.
- Latitude by D.R. — N. 38 . 21 "
- Longitude by Chro P.R. do do — W. 68 . 56 "

Current during the time, 1 knots 2 tenths per hour, setting to the N. 1/2 E.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 3 3/4 " N. N. E. W 8 ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 400 gallons.

Water ——— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2950 "

Coal consumed during the preceding 24 hours, tons 4 lbs.

Coal remaining on hand at Noon, 173 " 881 "

under the command of Commander T. F. Jewell, U. S. Navy,

Sunday September 5th, 18 86.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends A.M.

Clear and pleasant. Moderate breeze from E.N.E. and N.E. by E. Steering by the compass. Moderate sea. Ship pooling easily but deeply at times. Pumped ship out at 1.00 and 2.00. Sounded bilges as follows: 12.30 Fwd 5" aft 8" - 1.00 Fwd 2" aft 11" - 1.30 Fwd 3½" aft 9" - 2.00 Fwd 3" aft 4½" - 2.30 Fwd 3½" aft 6" - 3.00 Fwd 2" aft 3" - 3.30 Fwd 2" aft 3" - at end of watch, fwd 2½" aft 5½". Ship under plain sail to T.Y. Sails save F. and M. T. Staysail and M. Trysail.

E. W. Waring
Lieut U. S. N.

From 4 to 8 A.M.

Partly clear, pleasant. Sun and mink clouds. Gentle to moderate breeze from N.E. by E. first hour, falling light and shifting to N.N.E. last hour. Moderate sea from E. Barometer steady. Pumping ship about most of watch. A head of water ship showed 2½" fwd and 2½" aft.

C.A.F. Beaudry
Ensign U. S. N.

From 8 A.M. to Meridian.

Clear and warm. Light variable winds from E.N.E. to S.E. by E. At 10.00 went to Quarters for inspection, then Articles of War and General Muster. At 11.50 wore ship to N. Ship about 12 minutes uncaring. Water in bilges at noon 2½" fwd, 6" aft. By order of Engg Officer the following changes in ratings were established: Geo Hurst from 1st to C.a.G., G Holm 2d Cl to C. Hoes and L. Leaders C.a.G. to 2d Cl.

E. D. Galloway
Lieut U. S. N.

From Meridian to 4 P.M.

Clear and pleasant. Light to gentle breeze from S.E. by E. and E.S.E. Broke out shell room and magazine and dried them. Brig in sight on port beam, standing to N. and E. 2½" of water fwd and dry aft at 4.00

H. G. Gearing
Lieut U. S. N.

From 4 to 6 P.M.

Cloudy and pleasant. Gentle to moderate breeze from E. by S. Ship by the wind on starboard tack under plain sail to T.Y. Sails save F. and M. T. Staysail and M. Trysail. Bilge at 5.00 Fwd 1½", Eng. Room 1½", Shaft alley 2". At 6.00 same as at 5.00. Moderate sea and swell. Restored magazine.

E. W. Waring
Lieut U. S. N.

From 6 to 8 P.M.

Partly clear, hazy 1st hour. Sun - mink clouds. Vivid sheet lightning from S. with threatening appearances in same direction. Moderate breeze from E. by S. and S.E. by E. Smooth sea. Barometer steady. Ship under plain sail to T.Y. Sails, fore and aft. Course E. by N. At end of watch 2" fwd, 5" Engine Room and 6" shaft alley.

C.A.F. Beaudry
Ensign U. S. N.

From 8 P.M. to Midnight

Cloudy and warm. Light breeze from E. S.E. and E. by S. Bank of clouds with lightning along horizon to S. and W. Sea smooth. At end of watch depth of water fwd 1" Engine Room 2" shaft alley 4½".

E. D. Galloway
Lieut U. S. N.

Examined and found to be correct.

E. W. Waring
Lieut Navigator.

Moon's Declination 8° 17' N. to 1st Quarter.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to Gibraltar, Spain.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	2	5	38.4	N. by E. 3/4 E.	East	2		3/4	30.4	48	44	34		bc.	nmb cir	5	S.
2	2	8	42.5	"	"	3		3/4	30.40	48	44	34		bcl.	"	5	"
3	2	6	45.5	"	"	3		3/4	30.40	48	44	34		"	"	4	"
4	3	0	48.8	N. N. E.	"	3		3/4	30.40	47	44	34		"	cimm	8	"
5	3	6	52.4	N. N. E. 1/4 E.	"	2		1/2	30.40	47	44	34		bcld.	cir	4	"
6	3	8	56.4	N. N. E.	"	2		1/2	30.42	47	43	34		bc.	cir cir	8	"
7	4	0	62.5	N. by E. 3/4 E.	"	2		1/2	30.42	47	43	34		"	"	8	"
8	3	8	66.9		"	2-3		1/2	30.40	47	43	34		"	"	8	"
9	3	6	70.5	N. E. 1/2 N.	E. by E.	3		1	30.48	47	45	34		"	"	9	"
10	4	1	74.6	N. N. E. 3/4 E.	E. by S.	3		1	30.48	47	46	34		"	"	9	"
11	5	0	79.6	N. E. by N.	"	3		1	30.50	47	46	34		"	"	9	"
Noon.	4	4	84.0	N. E. 1/2 N.	E. by E.	3		1	30.50	48	46	34		"	"	9	"

Course and distance made good since preceding noon by observations, N. E 1/8 N. 106 knots. tenths.

Dg 481

Position at Noon: Latitude by D. R. N. 39 ° 17' "
Longitude by D. R. W. 69 ° 07' "
Latitude by observations of ⊙ N. 39 ° 26' "
Longitude by chronometer from Forenoon Observations of ⊙ W. 68 ° 26' "

Position at 8 a. m. Latitude by D.R. N. 39 ° 01' "
Longitude by Chro do do do W. 68 ° 42' "

Position at 8 P. M. Latitude by D.R. N. 40 ° 00' "
Longitude by Chro Pos do do W. 68 ° 13' "

Current during the time, 1 knots 3 tenths per hour, setting to the E. N. E. 1/2 E.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 8 09 " N E by N. W 1/2 ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 401 gallons.

Water ———— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2550 "

Coal consumed during the preceding 24 hours, tons 4 01 lbs.

Coal remaining on hand at Noon, 123 " 481 "

P. M.													
1	4	4	89.3	N. E. 1/4 N.	E. by E.	3	1	30.49	47	45	43	34	bc.	cir str	9	S.
2	4	0	94.3	"	"	2	1	30.50	47	45	43	38	"	"	9	"
3	3	6	98.8	"	"	2	1	30.51	48	45	43	33	"	cir	9	"
4	4	0	3.0	"	"	2	1	30.50	47	46	43	33	"	cir cimm	9	"
5	4	0	9.0	"	"	2	1/2	30.51	47	46	43	33	"	"	8	"
6	4	0	14.5	N. E. 1/2 N.	"	2		30.52	48	44	42	33	"	"	9	"
7	0	8 / 1	0 15.5	N. E. W. by N.	"	2	1/2	30.53	48	44	42	33	"	cir str	4	"
8	4	2	20.5	N. N. E. 1/4 E.	"	2-3	1/2	30.50	48	44	42	33	"	"	8	"
9	1	0	22.0	S. W. by S.	S. W.	3-3	1	30.49	48	44	42	33	bcu.	cimm	10	"
10	3	8	26.3	"	S. E. by S.	3-3	1	30.49	48	44	42	33	"	"	10	"
11	4	2	30.8	"	"	3	1	30.49	49	44	41	33	"	"	10	"
Mid.	4	4	35.6	S. W. 1/2 S.	"	3-3	1	30.49	49	45	41	33	"	"	10	"

Dg 796 N 40 W 69 44

under the command of Commander T. F. Jewell, U. S. Navy,

Monday September 6th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Ends 4 A.M.

Clear and damp. Light to gentle breze from East. Cloud bank in S.W. Horizon from which occasional flashes of heat lightning. Ship steady and on an even keel, making very little water. At 4 1/2" fwd and 6" aft. Steering by the wind.

H. le Gearing.
Lieut U. S. N.

From 4 to 8 A.M.

Clear and pleasant. Light to gentle breze from East. Ship by the wind on starboard tack under plain sail to T.G. Sails save F. and M. T. Staysails and M. Topsail. Bilge at 5, 6 and 7 fwd 1" aft 6". At 8 fwd 1" aft 4 1/2". Bilge pump working badly by reason of clogging with chips and small pieces of wood. Light smoke from Starboard. Ship steady.

H. le Gearing
Lieut U. S. N.

From 8 A.M. to Meridian.

Generally clear, bright and pleasant. Gentle breze from E.S.E. and E by S. Barometer 30.18 to 30.20. Sea smooth. At 9.30 came to Quarters for muster and inspection after which drilled 1st 2nd and 3rd Divs at Great Guns, Navigators and Powder Divisions at Sabines and Marine Guard at Infantry. At 10 o'clock bilge showed 1" fwd 5" aft. At 10 and 11 o'clock 1 1/2" fwd 6" aft, pumped ship out at 11.30 At 12 o'clock bilge showed 1" fwd 3/4" aft. At end of watch under plain sail to T.G. Sails, Fires and by, course E by N. Fired magazine and shell room.

A. F. Dechtler
Ensign U. S. N.

From Meridian to 4 P.M.

Clear and pleasant. Light breze from E.S.E. Smooth sea. At 1 P.M. exercised Divisions as per routine.

C. D. Galloway
Asst Surg U. S. N.

From 4 to 6 P.M.

Fine weather. Smooth sea. Light E.S.E. breze. Steering by the wind. Water in bilge at 6 P.M. 1 1/2" and 4 1/2" aft.

H. le Gearing.
Lieut U. S. N.

From 6 to 8 P.M.

Clear and pleasant. Light to gentle breze from E.S.E. At 6.05 called all hands and exercised at Shortening and Furling Sail mustering crew at Stations. At 6.35 Loosed Sail and Made and Plain Sail to T.G. Sails save F. and M. T. Staysails and M. Topsail. Brought ship by the wind on starboard tack. Bilge 4 fwd and 8 fm 1 1/2", aft 4 1/2". Barometer rising.

H. le Gearing
Lieut U. S. N.

From 8 P.M. to Midnight.

Clear and pleasant. Bright moonlight. Light to gentle breze from E.S.E. and E.S.E. by S. Barometer 30.19 Sea smooth. At 8 tried to tack ship, but failed after two trials and then wore ship, finishing at 8.50. At end of watch by the wind on the port tack, under plain sail to T.G. Sails, Course (p.c.) E.S.E. At end of watch 4 1/2" in engine room and 4 1/8" in shaft alley.

Examined and found to be correct.

A. F. Dechtler
Ensign U. S. N.

A. V. Wadhams
Lieut and Navigator.

Hours Declination 9°18'33" Face Mom.

LOG of the UNITED STATES. Steamer "Essex", 3d Rate,

At Sea making passage to Gibraltar, Spain.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1		5	36.3	S W N. E.	S. E.	1		1	30.48	64	70	62		b.w.	nmc	10	S.
2	1	4	37.7	N. E by. E. ½ E.	"	1		½	30.43	54	70	62		"	"	10	"
3	1	4	39.1	E N. E.	"	1		½	30.44	54	70	63		"	"	10	"
4	1	4	38.0	N. E by. E ½ E.	"	1		½	30.44	54	70	63		"	"	10	"
5	2	0	39.4	N. E by. E.	S. E by. E.	2		½	30.46	54	70	63		b.c.y.	cir. cir.	9	"
6	2	0	41.4	"	"	2		½	30.46	54	72	63		"	"	9	"
7	1	6	41.4	"	"	2		½	30.48	54	72	63		b.y.	"	9	"
8	1	8	41.6	"	"	2		½	30.49	54	72	63		"	"	9	"
9	2	5	43.9	N. E. ¼ N.	E. S. E.	2		½	30.50	54	74	63		"	"	9	"
10	2	2		N. E. ¼ E.	"	2		½	30.51	54	74	63		"	"	9	"
11	2	0	44.3	N. E by. E.	"	2		½	30.53	54	74	63		"	"	9	"
Noon.	1	8	48.1	N. E. ¼ E.	"	2		½	30.55	54	74	63		"	"	9	"

Course and distance made good since preceding noon by observations, N. by. E. 3/4 E. 50 knots. tenths.

Position at Noon: Latitude by D. R. N. 40 ° 03' "
Longitude by D. R. W. 68 ° 08' "
Latitude by observations of ⊙ N. 40 ° 13' "
Longitude by chronometer from Forenoon Observations of ⊙ W. 68 ° 03' "

Lg 496

Position at 8 a. m. Latitude by D.R. N. 40 ° 06' "
Longitude by Chron do do do W. 68 ° 09' "

Position at 8 P. M. Latitude by D.R. N. 40 ° 14' "
Longitude by Chron P.M. do do W. 67 ° 05' "

Current during the time, knots 5 tenths per hour, setting to the E. N. E. 1/4 E.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 7/50 " N E by. E ½ E. W 10 ° 25 "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 400 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2150 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 123 " 81 "

P. M.											
1	1.0	N. E. ¼ E.	E. S. E.	2	1	30.55	74	74	b.w.	nmc	10	S.
2	Firing at Target		"	2		30.54	80	74	"	"	10	"
3	do		S " by. E.	1		30.54	80	74	"	"	10	"
4	Clearing Ship		"	1		30.53	79	74	"	"	10	"
5	1 5	E by. S.	"	1	½	30.50	74	72	"	cir.	10	"
6	1 2	"	"	1	½	30.50	74	72	b.c.y.	cum	8	"
7	0 5 50.4	"	South	1		30.48	74	72	"	"	9	"
8	1 0 50.7	"	"	1		30.48	74	64	"	"	9	"
9	1 0 51.1	S. E by. E. ½ E.	S. W by. S.	1	½	30.46	74	72	b.w.	"	9	"
10	0 6 51.6	"	"	1	½	30.47	74	72	"	"	9	"
11	0 5 52.1	"	"	1	½	30.48	74	63	b.y.	"	9	"
Mid.	0 3 52.4	"	"	1	½	30.48	74	64	"	"	8	"

under the command of Commander T. F. Jewell, U. S. Navy,
Tuesday September 7th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Unties A. M.
Clear and pleasant. Light airs from S. E. Smooth sea. Four inches of water in bilge.
Lieut U S N.

From 4 to 8 A. M.
Fine weather. Smooth sea. Light S. E. by E. breeze. Barometer steady. By the wind.
L. M. Goldsborough
Lieut U. S. N.

From 8 A. M. to Meridian,
Light breeze from S. E. 6.
7.30 Inspected Ist Quarters.
Eight Sticks, 3 Dozen Rifles,
P. M. Waring
Lieut U S N

Expended in Ordnance Dept for Target Practice.
6 Pdr - 6 - 6 lb Charges
do 6 Parrott Shell
do 6 Buster Bags
8" M L R. 6 - 3 1/4 lb Charges
do 6 - Short Butter Shell
do 6 Buster Bags
9" S B. 12 10 lb Charges
do 12 5" Shell
12 Percussion Primers
6 Friction do
2 Sheet Lt Cos. do

Expended during Meridian to 4 P. M. Watch.

S. E. by E. at 4, fresh breeze
Ensign U S N

From 4 P. M. to Midnight
Clear and pleasant. Light airs from S. E. by S. at 9, 10 & 11, 6" water in bilge. Repaired bilge pump & pumped ship out at 11:40 set Royals. Ship barely under steerage way.
Ensign U S N

Light breeze from S. E. 6.
7.30 Inspected Ist Quarters.
Eight Sticks, 3 Dozen Rifles,
P. M. Waring
Lieut U S N

E. S. E. first part. Light airs at 10 P. M. went to Quarters, part battery. Finished taking up target at 3 A. M. Ship finished at 4 A. M. Sea smooth. Barometer steady, under plain sail to
A. T. Hopkins
Ensign U S N

S. E. by E. at 4, fresh breeze
E. D. Galloway
Lieut U. S. N.

Light airs and variable winds in shortening sail
W. H. Goldsborough
Lieut U. S. N

S. E. by E. at 9, 10 & 11,
Bright moonlight.
P. M. Waring
Lieut U. S. N.

Examined and found to be correct.

Noons Declination 9° 18' 33" North
A. T. Mahan
Lieut U S N Navigator.

under the command of Commander T. F. Jewell, U. S. Navy,

Tuesday September 7th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Until 4 A. M.
Clear and pleasant. Light airs from S. E. Smooth sea. Four inches of water in bilge.
Lieut U S N

From 4 to 8 A. M.
Fine weather. Smooth sea. Light S. E. by E. breeze. Barometer steady. By the wind.
Lieut U. S. N.

From 8 A. M. to Meridian
Pleasant weather, hazy around horizon. Light breeze from E.S.E. Smooth sea. Ship full and by on starboard tack. At 9.30 inspected Gt Quarters. Exercised divisions as follows: 1st Div. Rifles, 2d Div. Single Sticks, 3d Div. Rifles, Powder Div. Infantry and Engineers Div. Rifles.
Lieut U. S. N

From Meridian to 4 P. M.
Clear hazy warm. Light breeze from E. S. E. first part. Light airs from S. by E. afterwards. Got target overboard at 12.45 and went to Quarters for Target Practice. Fired six rounds from port battery. Finished practice at 2.30, hove to and lowered whale boat and picked up target at 3 o'clock. Filled away at 3.10, when commenced securing ship, finished at 4 o'clock. Lost one rowlock from whale boat. Sea smooth. Barometer steady. At end of watch by the wind on starboard tack, under plain sail to topsails, course S E by E. 1/2 E.
Ensign U. S. N

From 4 to 6 P. M.
Clear, hazy and warm. Light breeze from S by E. at 4, took over patent log reading 48.4 knots.
Lieut U. S. N.

From 6 to 8 P. M.
Generally clear with a haze around the horizon. Light airs from South. From 6.10 to 7 exercising all hands in shortening and furling sail. At 7.20 hauled up mainsail.
Lieut U. S. N

From 8 P. M. to Midnight
Clear and pleasant. Light airs from S.W. by S. at 9, 10 and 11, 6" water in bilge. Repaired bilge pump & pumped ship out at 11.40 set Royals. Ship barely under steerage way. Bright moonlight.
Lieut U. S. N

Examined and found to be correct.

Navigator.

Noons Declination S 18° 33' New Moon

LOG of the UNITED STATES — Steamer "Essex", 3d Rate,

At Sea making passage to Gibraltar, Spain.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	0	4	53.2	SE by E. ½ E.	S by W.	0-1			30.46	76	76	74	73	b.c.d.	cum	8	S.
2	0	6	53.4	"	"	1			30.46	76	76	74	73	"	"	6	"
3	1	0	53.5	"	"	1-2			30.46	76	75	73	73	"	"	7	"
4	1	6	53.5	"	"	2			30.43	74	74	73	73	"	"	9	"
5	1	4	54.6	"	"	1			30.45	74	74	73	73	"	"	9	"
6	1	5	54.4	"	"	1			30.42	76	74	73	75	"	cir cum	8	"
7	1	2	55.0	"	SW.	1			30.43	78	76	74	75	b.c.	"	8	"
8	1	0	55.1	"	"	1			30.43	74	75	74	75	"	"	8	"
9	1	0		E by E	West	1			30.42	78	76	74	74	b.c.f.	"	7	"
10	1	0		SE ½ S	E. N. E.	1			30.41	74	75	74	73	b.c.	"	6	"
11	0	0			N. W.	1			30.41	74	74	73	74	"	"	8	"
Noon.	1	2	56.1	SE by E. ½ E.	S by W.	1-2			30.41	79	78	76	74	"	"	8	"

Course and distance made good since preceding noon by observations, E N. E. ½ E. 40 knots. tenths.

Sq 496

Position at Noon:
- Latitude by D. R. — N. 40 ° 16′ "
- Longitude by D. R. — W. 64 ° 39′ "
- Latitude by observations of ⊙ — N. 40 ° 24′ "
- Longitude by chronometer from Forenoon Observations of ⊙ — W. 64 ° 13′ "

Position at 8 a. m.
- Latitude by D. R. — N. 40 ° 25′ "
- Longitude by Chro Do Do Do — W. 64 ° 16′ "

Position at 8 P. M.
- Latitude by D. R. — N. 40 ° 02′ "
- Longitude by Chro P.M. Do Do — W. 66 ° 52′ "

Current during the time, 1 knots tenths per hour, setting to the N. E by E.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ "

Variation of the Compass by Azimuth ⊙ observed at " ° ′ "

Variation of the Compass by Azimuth ⊙ observed at " ° ′ "

Water expended during the preceding 400 gallons.

Water ——— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1500 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 122 " 1925 "

P. M.									
1	28 69.	S E by E.	S W.	1	½	30.48	b.c.	cir cum	8 S.
2	28 60.3	"	S S W.	2	½	30.48	"	"	8 "
3	36 65.6	"	"	2	½	30.48	"	"	8 "
4	40 69.	S E ½ E.	S W.	2	¼	30.41	"	"	8 "
5	38 73.	"	W. S W.	3		30.48	"	"	8 "
6	40 75.	"	"	3		30.43	"	"	8 "
7	26 81.1	"	"	2		30.40	"	"	8 "
8	44 85.5	"	"	2-3		30.40	"	"	8 "
9	50 92.5	"	"	3		30.39	"	"	9 "
10	55 99.2	"	S W.	4		30.39	"	"	7 "
11	66 7.3	"	"	4		30.39	"	"	7 "
Mid.	64 15.	"	"	4		30.39	"	"	9 "

D 4.781
N 40
W 66 52

under the command of Commander T. F. Jewett, U. S. Navy,
Wednesday September 8th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M.
Generally clear bright Starlight. Hammock at 10 o'clock. Wet heavy dew. Few cumulus clouds. Light airs to brisk from S by W. Sea smooth. Barom 30.46 to 30.43. Ship under plain sail to topsails. at midnight steered magnetic course S E by E 1/2 E.

A. F. Legrow
Ensign U. S. N.

From 4 to 8 A.M.
Clear, warm and pleasant. Light breeze from S by W veering to S W and increasing in force. Light fog bank lying on horizon to the N and W. Sea smooth. Barometer steady.

E. D. Galloway
Lieut U. S. N

From 8 A.M. to Meridian.
Clear and pleasant. Light fog bank to N. Light variable airs to 11.10 when breeze sprung up from S. S. W. which signs of increasing at end of watch. Barometer steady. Sea smooth. At 9.30 inspected at Gratings Drill as follows. 1st Div. Single Sticks, 2d Div. Rifles, Powder Div. School of the Company, Navigators Div. Torpedoes. At 9.10 hauled up Courses and took in Spanker and Jib Topsail setting them again at 11.30. Last half hour steering the course S E by E 1/2 E. changing course at noon to S E by E.

N. Heaning
Lieut U. S. N

From Meridian to 4 P.M.
Clear and pleasant. Light breeze from S W and S S W at 1.30 hove ship to with head yards and exploded service torpedo at 2.40 filled away. at 2.50 set M. T. Staysail and at 3.50 set Fig T. M. Staysail. at 3.00 changed course to S E 1/2 E. Expended in Ord. & Exp. 38 lbs Gun Cotton wet 1 Service torpedo 1 Tripod 3 Nuts and 3 washers 1 dry Primer, 1 Detonator 1 3/4 lbs Salammiac 1 Hand hold 1 Rubber Washer 1 Spare Bridge 1 Secondary Char. 1 Torpedo pin and Toggle. The Concussion of the torpedo broke two globes for hand lanterns that were hanging in the lamp locker underneath port side of forecastle.

P. T. Waring
Lieut U. S. N.

From 4 to 6 P.M.
Clear bright and warm. Cirro-cumulus clouds around horizon. Gentle breeze from W. S. W. Sea smooth. at end of watch ship in course S E 1/2 E, under plain sail to Royals, Fore, Main and Mizzen T. M. Staysails.

A. F. Legrow
Ensign U. S. N.

From 6 to 8 P.M.
Clear and pleasant. Gentle breeze from W. S. W. at 6.15 called all hands and exercised shortening, furling and making sail. Gentle swell from S. Sea smooth.

E. D. Galloway
Lieut U. S. N

From 8 P.M. to Midnight.
Fine, clear weather with bright moonlight. Moderate breeze from S. W. Barometer steady. Sea smooth. Steering course S E 1/2 E.

N. Heaning
Lieut U. S. N

Examined and found to be correct.

A. R. Wadhams
Lieut U. S. N

Navigator.

Hours Declination 9 1/2 4 1 Newcomb.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to Gibraltar, Spain.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.															cumu		
1	6	4	23.0	S. E. ½ E.	S. W.	3			30.31	84	64	56	56	b. c.	cir	9	S.
2	6	4	29.3	"	"	2-3			30.31	84	64	44	46	"	"	9	"
3	5	8	36.5	"	"	2-3			30.32	84	64	44	46	"	"	8	"
4	5	0	41.5	"	"	2-3			30.31	84	64	44	46	"	"	8	"
5	4	0	45.5	"	"	3			30.33	84	64	44	46	"	cir. cumu	8	"
6	3	4	48.4	"	"	3-2			30.34	84	64	56	56	"	"	8	"
7	2	4	50.4	"	"	2			30.33	84	64	54	54	"	"	8	"
8	2	2	51.6	"	"	2			30.32	84	64	54	54	"	"	5	"
9	2	0	51.4	"	S. W. by W.	1			30.35	84	44	54	56	"	"	6	"
10	1	0	52.1	S. "E.	"	1			30.35	84	44	54	56	"	"	5	"
11	2	0	52.5	"	"	1			30.34	84	44	54	54	"	"	6	"
Noon.	2	0	53.9	"	"	1			30.34	80	44	54	54	"	"	6	"

Course and distance made good since preceding noon by observations, S. E. ½ E. 68 knots. tenths.

Sq 481	Position at Noon: Latitude by D. R.	N. 39	26' "
	Longitude by D. R.	W. 65	34 "
	Latitude by observations of ⊙	N. 39	40' "
	Longitude by chronometer from Forenoon Observations of ⊙	W. 65	06' "
	Position at 8 a. m. Latitude by D. R.	N. 39	45' "
	Longitude by Chro Do Do Do	W. 65	14' "
	Position at 8 P. M. Latitude by D. R.	N. 39	43' "
	Longitude by Chro P. M. Do Do	W. 64	32' "

Current during the time, 1 knots 1 tenths per hour, setting to the N. E. by E.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 4.57 " S. E. ½ E. W 13 ° 24' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 400 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1150 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 17 " 1525 "

	Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
Dy 782	P. M.																	
" 3939	1	2	1	55.0	E. by E.	S. W. by W.	1			30.30	81	80	74	74	b. c.	cir cumu	7	S.
W 65	2	2	0	56.4	"	"	1			30.30	81	81	78	78	"	"	6	"
	3	2	0	58.2	"	"	1			30.28	81	80	74	78	"	"	7	"
	4	1	6	59.0	"	"	1			30.26	81	80	74	78	"	"	7	"
	5	1	2	60.2	"	W. by W.	1			30.24	81	79	76	74	"	Cir	7	"
	6	1	8	61.4	"	"	1			30.20	80	79	76	74	"	"	7	"
	7	1	0	62.0	"	"	1			30.26	80	74	76	76	"	"	5	"
	8	1	0	62.1	"	"	1			30.28	80	74	76	76	"	"	7	"
	9	1	0	62.4	S. E. by E. ½ E.	"	1			30.28	81	74	76	76	"	"	6	"
	10	0	5	62.8	E. ½ N.	S. S. E.	1			30.28	81	76	76	76	b. c.	cir cumu	5	"
	11	0	5	63.4	N. E. by E.	S. E.	1			30.28	79	76	74	76	"	"	5	"
	Mid.	1	0	64.0	N. E. by E. ½ E.	"	1			30.27	78	76	74	76	"	"	5	"

under the command of Commander T. F. Jewell, U. S. Navy,

Thursday September 9th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Unto 4 A.M.

Clear and pleasant. Light to gentle breze from S.W. Smooth sea. Ship on course S.E.½.E. under plain sail to Royals save Main Topsail. Four and a half inches water in bilge at the watch. Patent log at end of watch 41.7. Moon set at 1.53.

D. D. Wooding
Asst U. S. N.

From 4 to 8 A.M.

Partly clear, bright and pleasant. Cir-cumu clouds. Light to gentle breze from S.W. Sea smooth. At end of watch in course S.E.½.E. under plain sail to Royals save Fore, Main and Mizzen Topmast Staysails.

A. F. Leighton
Ensign U. S. N.

From 8. A. M. to Meridian.

Fair and warm. Light breze from S.W.by.W. Sea smooth. Gentle swell from S. At 9.30 inspected at Quarters and exercised 1st div. Rifles, 2d div. Target Practice with air rifle, 3 div (at mark) instructed by Medical Officer in location of arteries and application of tourniquets, Rest div. Setting up, Engs div. Rifles and 4th div Target Practice with air rifle. Placed J. Rodriga and W. Williams app. in double irons for two days for fighting by order of Comdg Officer. also M. K. Mackaman 1st and F.A. Clarke 1st confined in single irons for 2 days, for failing to turn out at Tattoo.

T. D. Galloway
Asst U. S. N.

From Meridian to 4 P.M.

Clear and warm. Light airs from S.W. by W. Sea smooth. At 1.10 sounded Battalion Call and drilled Companies. By order of Comdg officer F. A. Clarke 1st was released from confinement. Steering course S.E. by E. Bailed up Spanker and Jack Topsail at 3 P.M.

L. Edwards
Lieut U. S. N.

From 4 to 6 P.M.

Clear and warm. Light airs from W.S.W. Smooth sea. At 4.40 hauled up weather clew of Mainsail. Ship on her course S.E. under plain sail to Royals save M. Staysail and Spanker. Bilges 4".

D. D. Wooding
Asst U. S. N.

From 6 to 8 P.M.

Partly clear and warm. Cir cumu and Stratus clouds. Light airs from W.S.W. Sea smooth. At 6.15 exercised reefing topsails and Courses, finished at 6.50 P.M. End of watch in course S.E. under plain sail to Royals except weather clew of Mainsail and Spanker. Fore, Main and Mizzen T. Staysails.

A. F. Leighton
Ensign U. S. N.

From 8 P.M. to Midnight.

Clear and warm. Cumulo and light airs from west. First hour light airs from S.E. during remainder of watch. Light Cirrus and Cir-cumu clouds passing over from west and S.W. At 9 set Spanker. Bright moonlight. Lightning along the horizon to S. at intervals. Sea smooth. Gentle swell from S.

T. D. Galloway
Asst U. S. N.

Examined and found to be correct.

A. F. Leighton
Lieut and Navigator.

Noons Declination S 16° 0' 3 Knots Nom.

LOG of the UNITED STATES Steamer "Essex", 30 Rate,

At Sea making passage to Gibraltar, Spain

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	1	5	66.6	E by N.	S. S. E.	1-2		1/2	30.26	78	76	75	77	b.c.	cumu nimb	7	9
2	2	8	68.2	E by S	S by E.	1-5			30.25	77	75	72	76	b.	"	6	"
3	2	0	68.6	S E by E 3/4 E.	S by W.	2		1/2	30.23	77	76	74	79	b.c.	"	6	"
4	3	5	73.3	S E by E 1/4 E.	"	3		1/2	30.23	77	76	74	79	"	cumu	4	"
5	3	7	78.2	S S E by E 1/2 E. E S E 1/2 E.	S S W South	2-3 3			30.20	79	76	74	80	"	cumu cirr	3	"
6	5	8	84.0	E by S	S by E	3		1/4	30.20	78	77	75	80	"	"	3	"
7	7	1	91.1	S E by E 1/2 E.	S S W.	3-4		1/4	30.21	79	79	75	79	"	"	2	"
8	7	9	99.0	"	"	4		1/4	30.20	79	78	75	79	cl.	"	2	"
9	7	3	106.3	S E by E 3/4 E.	"	4		1/2	30.24	80	78	75	78	b.c.	cumu nimb	1	"
10	6	4	114.0	E S E 1/4 E.	S by W.	4		1/2	30.25	80	78	75	78	"	"	3	"
11	7	5	121.7	"	"	4		3/4	30.24	82	78	76	78	"	"	1	"
Noon.	8	0	130.0	E S E.	"	4-5		1	30.25	82	78	76	78	b.c.	nimb	0	"

Course and distance made good since preceding noon by observations, E 3/4 — 10 knots — tenths.

Position at Noon:
- Latitude by D. R. — N. 39 ° 34' "
- Longitude by D. R. — W. 63 ° 34' "
- Latitude by observations of ⊙ — Estimated — N. 39 ° 50' "
- Longitude by chronometer from Forenoon Observations of ⊙ — W 63 ° 34' "

Sq 248

Position at 8 a. m.:
- Latitude by D.R. — N. 39 ° 45' "
- Longitude by Chro do do do — W. 64 ° 23' "

Position at 8 P. M.:
- Latitude by D.R. — N. 39 ° 44' "
- Longitude by Chro P.M. do do — W. 62 ° 50' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 8 16 " E 9 E W 13 ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, ~~350~~ gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 800 "

Coal consumed during the preceding 24 hours, tons 14 lbs.

Coal remaining on hand at Noon, 127 " 121 "

P. M.															
1	7	0	39.0	S E by E 1/2 E.	S by W.	4-5		3/4	30.23	79	78	76	76	b.c.	cumu nimb	1	9
2	6	8	46.5	"	"	5		3/4	30.20	79	78	76	78	"	"	1	"
3	6	4	53.1	"	"	5		3/4	30.18	79	79	77	79	"	"	1	"
4	6	8	60.5	"	"	5		3/4	30.15	79	78	76	78	b.c.	"	0	"
5	6	8	69.6	S E by E 3/4 E.	"	5		1/2	30.15	79	78	76	78	"	"	0	"
6	5	5	77.0	E S E.	"	5		1/2	30.14	79	79	76	78	"	"	0	"
7	8	4	83.4	E S E 1/4 E.	"	6		1/2	30.16	79	78	76	79	"	"	0	"
8	8	1	93.5	E S E.	"	6		1/2	30.15	79	78	76	79	"	"	0	"
9	8	6	102.1	S E by E 1/2 E.	"	5-6		1/4	30.17	77	76	76	79	oc gr.	nimb	0	"
10	8	0	110.0	"	"	5		1/2	30.16	78	76	75	77	"	"	0	"
11	8	0	118.1	"	"	5-6		1/2	30.15	78	77	75	77	"	"	0	"
Mid.	8	0	126.2	"	"	5		1/2	30.14	78	77	76	77	oc	cumu nimb	0	"

under the command of Commander T. F. Jewell, U. S. Navy,

Friday September 10th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Variable 4 A.M.

Generally clear and pleasant. Again squalls and hour. Light airs to stiff breeze, in squalls from S.S.E. to S.by.W. Took in Staysails and Royals to squalls, resetting Royals. Moonlight-like 2 to 4. A bright lunar rain-bow in sky from 2.30 to 2.50. Sea smooth. Steering course S.E.by.E. & S.E. last hour. Barometer falling slowly.

Lieut U.S.N.

From 4 to 8 A.M.

Cloudy and pleasant. Gentle breeze from South and S.by.E. Light to gentle breeze from S.S.W. Gentle to moderate breeze from S.S.W. Ship on course S.E.by.E. & E. most of watch headed off occasionally first two hours. At 5 to set Main and Mizzen Topmast Staysails and Jeff Topsail, and took in Jeff Topsail and Mizzen Topmast Staysail at 7.40 to ease helm. At 8 ship under plain sail to Royals and M. Topmast Staysail. Lost overboard one (1) hammock from netting including lashing. Rigs at 5 and 6, 6½", at 7 and 8 2". Pumped ship out. Patent log at end of watch 99.0

Lieut U.S.N.

From 8 A.M. to Meridian.

Partly clear, cloudy and overcast last hour. Squally and rainy cloudy. Moderate breeze from S.S.W. and S.by.W. increasing to stiff breeze last hour. Sea smooth. At 8.20 took in and furled Royals and Flying Jib. At 9.20 went to Gunnel Quarters, all ready in 9'.20". Secured in 5'.45". At 11.5 hauled up and furled Mainsail. At 11.25 set Main Staysail. At 11.40 started fires under boilers 1 and 3 for distilling. At end of watch fresh and fair, under plain sail to Flying Sails, Fore and Main Topmast Staysails and Main T'gallant Staysail. Course S.E.by.E. & E.

Ensign U.S.N.

From Meridian to 4 P.M.

Cloudy, rainy and pleasant. Moderate to fresh breeze from S.by.W. Set Main Topmast Staysail, took in Spanker. Unbent Spanker for alterations and bent new Spanker. Sea smooth. Moderate swell. Ship easy.

Lieut U.S.N.

From 4 to 6 P.M.

Cloudy and overcast. Fresh S.by.W. breeze. At 5.30 called all hands and took one reef in the Topsails.

Lieut U.S.N.

From 6 to 8 P.M.

Overcast with occasional drizzling rain. Fresh breeze from S.by.W. At 6.40 took in and furled Main and Mizzen Topmast staysails and set Spanker. At 7.05 took in T'g'l Sails to a passing squall. Sea moderate. At 6.15 exercised at Fire Quarters, 1st Stream in 50". 2d in 1'25", 3d in 1'30", secured at 6.25.

Lieut U.S.N.

From 8 P.M. to Midnight.

Overcast cloudy and squally, heavy rain first hour, lights to 2d and 3d hours. Moon showing occasionally latter part. Cumulus clouds moving from S. Stiff to fresh breeze in squalls from S.by.W. Moderate sea from S. At end of watch ship on course S.6½ E., under single reefed topsails, foresail, Jib, and F.T. Staysail, Main Topsail and Spanker. Distilling.

Ensign U.S.N.

Examined and found to be correct.

Moon's Declination S 13° 4' Full Moon.

Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to Gibraltar, Spain.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	4	5	34.4	S. E by E 1/2 E.	S S W.	5-6			30.10	49	49	45	49	b.c.q.	cumm nim	0	M.
2	6	6	43.5	"	"	5-6			30.10	48	44	45	49	"	"	0	"
3	6	6	50.9	"	"	6-4			30.08	48	44	45	49	"	"	0	"
4	5	5	55.4	"	"	6-4			30.10	44	44	44	49	"	"	0	"
5	5	5	62.0	"	S by W.	6-4		1/2	30.15	44	46	44	44	"	"	0	"
6	5	5	68.6	E S E 1/2 E.	"	6		1/2	30.10	44	45	43	48	"	"	0	"
7	5	1	74.9	E. S E.	"	6-4		1	30.10	46	44	43	48	b.c.q.	"	0	R.
8	5	0	79.4	S E by E 3/4 E.	"	6-4		1	30.10	44	45	43	48	"	"	C	"
9	5 1/2	0	85.2	S E by E 1/2 E.	S S W.	5-4		1	30.10	44	46	44	48	"	"	0	"
10	3	0	89.0	"	"	5-6		1	30.12	44	46	45	44	b.c.q.	"	0	M.
11	3	2	92.6	"	"	5-4		1/2	30.10	48	45	44	48	"	"	0	"
Noon.	4	0	96.8	S E by E	"	4-8		1	30.10	44	43	43	44	"	"	0	"

Course and distance made good since preceding noon by observations,

Position at Noon: Latitude by D. R. N 39 46' ; Longitude by D. R. W 60 11' ; Latitude by observations of ⊙ ; Longitude by chronometer from Forenoon Observations of ⊙ — knots — tenths.

19 48

Position at 8 a. m.: Latitude by D. R. N 39 43' ; Longitude by D. R. W 60 32'

Position at 8 P. M.: Latitude by D. R. N 39 55' ; Longitude by D. R. W 59 11'

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head

Variation of the Compass by Amplitude ⊙ observed at Sunset, "

Variation of the Compass by Azimuth ⊙ observed at . "

Variation of the Compass by Azimuth ⊙ observed at "

Water expended during the preceding 24 hours, 350 gallons.

Water Distilled during the preceding 24 hours, 2650 "

Water remaining on hand fit for use at Noon, 3000 "

Coal consumed during the preceding 24 hours, 3 tons 480 lbs.

Coal remaining on hand at Noon, 118 " 1581 "

P. M.													
1	3	6	101.0	E S E 1/4 E.	S by W.	4	1	30.08	49	44	44	43	b.c.r.	cumm nim	0	M.
2	4	0	105.3	E S E 1/2 E.	"	4-5	1	30.05	48	44	43	42	b.c.q.r.	"	0	"
3	3	0	108.8	"	"	3-4	1	30.05	48	46	42	42	b.c.r.	"	0	"
4	3	0	112.0	E by S	South	3-4	1	30.05	46	44	42	41	"	"	0	"
5	3	0	116.5	S E by E 3/4 E.	S by W.	4-4	1	30.00	46	44	42	42	b.c.r.q.	"	0	"
6	4	5	121.0	E 1/2 S	S S E.	4-4	1	30.00	46	44	42	42	b.q.h.	"	1	"
7	5	8	129.0	E by S	South	4-5	1	30.00	44	45	43	42	b.h.	"	1	"
8	6	5	35.3	E S E	S by W.	4	1	30.00	44	46	43	42	b.c.	"	4	"
9	6	4	43.	"	"	4-4	1	30.90	44	46	43	42	b.c.h.q.	"	2	"
10	4	4	48.4	S E E 1/4 E.	"	4-4		29.98	44	45	43	42	"	"	1	"
11	4	3	56.	E S E.	"	5-4		29.94	48	46	44	42	"	"	1	M.
Mid.	8	8	64.8	"	"	5-4		29.96	48	46	44	46	b.c.h.q.	"	0	"

under the command of Commander T. F. Jewett, U. S. Navy,
Saturday September 11th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Unfit 4 A. M.

Overcast with passing rain squalls. Stiff breeze with fresh squalls from S. by W. at 7th furled Topgallant Sails. Sea moderate & increasing. Barometer steady at 30. took reef in Topsail. Ship pitching & rolling easily. Sixteen.

C. P. Galloway
Lieut U. S. N.

From 4 to 8 A. M.

Overcast with passing rain squalls the last two hours. Stiff breeze with fresh squalls from S. by W. Moderate rough sea. Barometer steady at 4th 30 hauled down Jib. Passing thro' frequent patches of floating oil. Course S. E. by E. 1/2 E. Sixteen.

H. Blessing
Lieut U. S. N.

From 8 A. M. to Meridian.

Overcast & rainy. Stiff breeze to moderate gale from S. by W. Squally. at 9th hoist a single reef in Foresail. at 10.45 hoist a close reef in Topsails. at 11.00 changed course to S. E. Steering course S. E. by E. 1/2 E. first three hours of watch & fresh & by last hour. Sixteen.

D. L. Harding
Lieut U. S. N.

From Meridian to 4 P. M.

Overcast cloudy & rainy squally 2d hour. Sunset & much clouds. Fresh to stiff breeze from S. by W. shifting last hour to South. Moderate sea. at 12.30 stopped sixteen and hauled fires. at 1st turned out close reef of Topsails & at 3rd secured reef & reef of Foresail. at 3.30 set Mainsail & took in Main Thysail. at end of watch fresh & by, with single reefs Topsails, whole Courses, Fore Topmast Staysail & Spanker, Course S. E.

A. T. Fechteler
Ensign U. S. N.

From 4 to 6 P. M.

Cloudy with frequent passing rain squalls. at 5th shook reefs out of Topsails & set Topgallant Sails. at 6th took in Mainsail & Spanker to a stiff rain squall from S. S. E. Weather unsettled. Sea moderate. Barometer steady.

C. P. Galloway
Lieut U. S. N.

From 6 to 8 P. M.

String breeze from South & S. by W. Cloudy with occasional patches of blue sky. Barometer steady. at 7th set Mainsail.

H. Blessing
Lieut U. S. N.

From 8 P. M. to Midnight.

Overcast with frequent passing showers & squalls. Moderate to very fresh breeze from S. by W. Ran ship off at 8.40 & 9.20 in heavy squall. Took in Mainsail two times to squalls during watch & reset it. at midnight ship pooling & pitching easily. Steering by the wind on starboard tack under Topsails, Courses, Jib & Fore Topmast Staysail. Log since from S. E.

D. L. Harding
Lieut U. S. N.

Examined and found to be correct.

Noon's Declination S 10° 5' Fair Noon

A. T. Fechteler
Ensign U. S. N. Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

at Sea making passage to Gibraltar, Spain.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	9	4	174.8	S.E by E. 4 E.	S. by W.	5-4		1/4	29.95	48	47	46	46	p.cgr.	cumb	0	M.
2	9	0	184.0	"	"	5-4		1/4	29.92	48	46	45	46	p.c.lgr.	"	0	"
3	9	0	194.0	"	"	5-4		1/4	29.91	48	46	45	46	"	"	0	R.
4	4 5	0 0	203.5	"	S"W.	5-8			29.90	47	45	45	46	p.c.rg.	"	0	"
5	4	0	208.3	E. N. E.	W. by S.	5-4			29.88	48	45	45	46	p.c.lgr.	cium nimb	1	"
6	4	0	212.5	S. E. by E.	West	4-6			29.88	47	45	44	47	p.c.lgr.	air-alt cum nimb	2	"
7	3	0	216.4	South	N. N. W.	3-5			29.91	47	46	44	47	p.c.lgr.	cir cum	4	M.
8	3	0	218.0	S. W. by W.	"	3-5			29.97	47	46	43	47	"	"	6	"
9	2	0	22.0	"	"	4			30.00	47	45	44	46	f.c.	"	6	"
10	1	8 0	24.0	S. by E.	"	4			30.00	48	44	45	44	"	"	4	"
11	4	4	29.9	"	"	3			30.09	48	44	45	44	"	"	5	"
Noon.	3	8	34.9	"	"	3			30.10	48	44	45	44	"	"	5	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. — N. 39 °43' 4 "
- Longitude by D. R. — W. 54 °32' "
- Latitude by observations of ⊙ — N. 39 °48' "
- Longitude by chronometer from Forenoon Observations of ⊙ — W. 54 °08 "

Dy 783

Position at 8 a. m.
- Latitude by D. R. — N. 39 °52' "
- Longitude by Chro Da Da Do — W. 54 °26' "

Position at 8 P. M.
- Latitude by D. R. — N. 39 °46' "
- Longitude by Chro P. M. Da Do — W. 56 °49 "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water Distilled during the preceding 24 hours, 100 "

Water remaining on hand fit for use at Noon, 2450 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 118 " 1181 "

P. M.													
1	4	0	38.9	E. S. E.	N. N. W.	3		30.12	48	44	44	b.c.	cumb	4	M.
2	3	2	42.1	"	"	3		30.14	49	48	46	44	"	6	"
3	2	9	46.0	"	"	3		30.15	49	48	46	44	cumb nimb	6	"
4	3	3	48.3	"	"	3		30.16	49	48	46	44	"	2	"
5	3	2	51.3	"	"	3		30.12	49	44	45	44	"	6	"
6	3	6	55.1	"	"	3		30.10	48	46	45	44	cir cumb	8	"
7	3	2	60.0	"	"	2		30.12	48	46	45	44	"	6	"
8	3	0	63.3	"	"	2		30.13	48	46	45	44	"	3	"
9	3	0	66.8	"	"	2	2	30.16	48	45	44	46	cumb etc	6	"
10	2	0	69.4	"	"	1	2	30.18	48	45	44	46	"	2	"
11	1	5	70.0	"	"	1	1	30.18	48	45	43	46	"	2	"
Mid.	1	6	70.2	"	N. W.	1	0	30.20	48	45	44	46	"	3	"

under the command of Commander T. T. Craven, U. S. Navy,

Sunday September 12th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Cutis 4 A. M.

Cloudy & squally with rain at intervals. Fresh to very fresh wind from S by W. Barometer falling. At 3m took two single reefs in Topsails. At 3.2m a heavy rain squall from S W. struck the ship. Cleared down Main Topsail, hauled up Mainsail, hauled down jib & set Main Trysail. Let her go off to E. N. E. Course E. E.

A. T. Dechtler
Ensign U. S. N.

From 4 to 8 A. M.

Overcast with heavy rain squalls first hour, during remainder of watch clearing. Wind moderating & veering to N. W. At 4m put two reefs in Main Topsail, one reef in Foresail furled Mainsail & brought ship head to sea on starboard tack. Ship pitching & pitching deeply but easily. Barometer rising rapidly after 6 o'clock.

Ch. Galloway
Asst U. S. N.

From 8 A. M. to Meridian.

Fine weather. Moderate to decreasing wind from N. N. W. Moderate sea from S W. broken in latter part of watch by rising swell from N W. Barometer rising 29.94 - 30.10. Cutis 9.4 heading into the sea to lose her. Then went on course E. S. E. making plain sail to Fore Sail & set to watch clew of Mainsail & Spanker hauling up Main Trysail, & heaving Main & Mizzen Topmast Staysails. Ship pooling greatly, greatest leeward roll 20° & greatest to windward 10°.

H. H. Gearing
Asst U. S. N.

From Meridian to 4 P. M.

Clear & warm. Gentle breeze from N. N. W. At 1m took in, furled & unbent Mainsail & set Royals. Long swell from S W. but cross sea from N. W. Ship pooling deeply, weather roll (extreme) 16°, lee roll (extreme) 21°. Ship under plain sail & Main & Mizzen Topmast Staysails, except Mainsail, Flying Jib & Spanker. Steering a course E. S. E. Relieved Mainsail.

F. W. Wood
Asst U. S. N.

From 4 to 6 P. M.

Generally clear, pleasant. Cum, cirr & cirr cumu clouds. Gentle breeze from N. N. W. Moderate sea, with long swell from S W. At 5m down Fore Topmast Staysail. Bent Mainsail & set Lee clew at end of watch. On course E. S. E. under plain sail to Royals, except Flying Jib & Spanker, also Main & Mizzen Topmast Staysail.

A. T. Dechtler
Ensign U. S. N.

From 6 to 8 P. M.

Wind & pleasant. Heavy banks of clouds along horizon from W. N. W. to North & N. E. also cumulus clouds passing over from N. N. W. Sea smooth with occasional long swells. Light breeze from N. N. W.

Ch. Galloway
Asst U. S. N.

From 8 P. M. to Midnight.

Fine weather with clearing sky first part of watch, clouding over last hour with clouds rising from S W. Horizon hazy. Wind very light from N. N. W. to N. W.

H. H. Gearing
Asst U. S. N.

Examined and found to be correct.

Mean Declination 8° 7' 32" East Var.

S. F. Graham
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to Gibraltar, Spain.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	1	0	70.2	E. by E.	N.W.	1			30.18	49	46	44	46	b.c.	cir cumu	2	S.
2	No	Mileage	Way		Calm	0			30.19	48	46	44	44	"	"	6	
3			Do			0			30.20	44	46	44	46	"	"	3	"
4	0	5	70.7	E. by E.	S.W.	1			30.16	44	46	44	46	"	cirrus	2	"
5	1	4	70.7	"	S. by W.	1-2			30.14	44	46	45	44	"	do	5	"
6	1	0	71.7	"	"	1			30.15	48	45	44	44	"	"	5	"
7	0	6	71.9	"	"	0-1			30.16	49	48	46	45	44	"	8	"
8	1	8	73.6	"	"	1-2			30.16	49	48	47	45	44	cir. cumu	8	"
9	2	5	77.4	"	"	2			30.16	49	48	46	45	44	"	8	"
10	3	6	80.3	"	"	2			30.17	49	49	48	46	44	"	9	"
11	4	0	84.3	"	"	2			30.17	48	49	49	49	h.	"	9	"
Noon.	4	0	92.9	"	S. by W.	2			30.18	48	49	47	49	h.c.	"	7	"

Course and distance made good since preceding noon by observations, S. 89° E. 54 knots. tenths.

Position at Noon:
- Latitude by D. R. — N. 39 ° 47' "
- Longitude by D. R. — W. 55 ° 55' "
- Latitude by observations of ⊙ — N. 39 ° 47 "
- Longitude by chronometer from Forenoon Observations of ⊙ — W. 55 ° 55 "

Position at 8 a. m.:
- Latitude by D. R. — N. 39 ° 47' "
- Longitude by Chron do do do — W. 56 ° 30' "

Position at 8 P. M.:
- Latitude by D. R. — N. 39 ° 47' "
- Longitude by Chron P. M. do do — W. 54 ° 45' "

Current during the time, knots 2 tenths per hour, setting to the S. 49° E.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 4 h " " E. by E. W 20 ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 400 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 3400 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 118 " 781 "

P. M.													
1	2	1/2	94.5	S. E. by E. 3/4 E.	S. by W.	3		1/2	30.18	49	b.c.	cir cumu	9 S.
2	5	6	4.4	"	"	3		1/2	30.18	49	"	"	9 "
3	5	1	9.5	"	"	3		1/2	30.17	49	"	"	8 "
4	4	8	14.0	"	"	3		1/2	30.15	49	"	"	8 "
5	4	2	18.2	"	"	3	2	1/2	30.16	49	"	"	8 "
6	5	2	21.7	"	"	3	3	1/2	30.16	49	"	mist	7 "
7	5	8	28.5	"	"	3	3	1/4	30.18	48	"	"	4 "
8	5	8	35.3	"	"	3	4	1/4	30.21	48	"	"	5 "
9	5	2	42.0	E. by E.	South	4	3	1/2	30.20	49	"	"	5 "
10	5	5	50.5	"	S. by W.	4	4	1/2	30.20	49	"	"	6 "
11	5	0	58.7	E. by E. 1/2 E.	"	4.5	4	1/2	30.20	48	"	"	7 "
Mid.	5	0	63.7	E. by E. 1/4 E.	"	4.5	4	1/2	30.23	48	"	"	8 "

under the command of Commander J. F. Tarrell, U. S. Navy,

Monday September 13th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M.

Clear and pleasant, bright moonlight. Light airs from N. W. and S. W. and calms. At 12:50 took in and furled Royals, hauled up Foresail and counter braced yards. Hauled in patent log reading 70.2. At 2:05 light air sprung up from N. W. Set Royals and Foresail. Port, over patent log. Ship, on course E. S. E., at end of watch. Long swell from S. W., Extreme pole 18° to starboard and 10° to port. Pumped ship out.

P. D. Walling
Asst U. S. N.

From 4 to 8 A. M.

Partly clear, pleasant. Cum-str and cir-cum clouds. Light airs to breez from S. S. W. Smooth sea with long, confused swell. At 6:30 took in Royals, set them again at 7:30 together with Flying Jib. At end of watch, on course E. S. E. under plain sail to Royals except Spanker.

A. T. Beckley
Ensign U. S. N.

From 8 A. M. to Meridian.

Clear and warm. Gentle breez from S. S. W. At 9:20 went to Quarters. At 9:45 Medical officer instructed 1st Div. in use of application of tourniquets and in the restoration of those apparently drowned. 2d Div. received target practice with air rifle; 3d Div. great Gun instruction; Nav. Div. Stations; Powd. Div. target practice with air rifle. Smooth sea with occasional long swell. Barometer rising slowly.

C. D. Galloway
Asst U. S. N.

From Meridian to 4 P. M.

Clear and warm. Gentle breez from S. by W. Aired bedding. Filled and fuzed 17 9" S. B. Shell. At 1:30 changed course to S. E. by E. 3/4 E.

Wedgwood
Asst U. S. N.

From 4 to 6 P. M.

Clear and pleasant. Gentle breez from S. by W. Ship, on course S. E. by E. 3/4 E. under all plain sail except Spanker; also Main and Mizzen Topmast Staysails. Smooth sea. Hauled in patent log and found it fouled with Gulfweed.

B. D. Walling
Asst U. S. N.

From 6 to 8 P. M.

Partly clear, pleasant. Cum and mixt clouds, moving to N. E. Gentle breez from S. by W. Smooth sea. At 7:40 took in Main and Mizzen Topmast Staysails. At end of watch on course S. E. by E. 3/4 E., under plain Sail to Royals and Fore Topmast Staysail, kept Spanker.

A. T. Beckley
Ensign U. S. N.

From 8 P. M. to Midnight

Clear, mild and pleasant. Gentle to moderate breez from South and S. by W. Cum-mixt clouds passing over from S. S. W. with light showers first part. Bank of Cumulus clouds around horizon to S. by W. latter part. Sea smooth. Gentle swell. Bright moonlight At 11:00 took in and furled Royals.

C. D. Galloway
Asst U. S. N.

Examined and found to be correct.

Moons Declination S 3° 54' Last Quarter

J. V. Abraham
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to Gibraltar Spain.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	5	0	68.4	E.S.E.	S by W.	4	4	3/4	30.22	48	77	66	66	b.c.	cumu nimb	4	9
2	5	6	74.5	"	"	4	4	3/4	30.24	48	77	66	66	"	"	4	"
3	5	5	81.1	"	"	4	4	3/4	30.24	48	77	66	66	"	"	8	"
4	5	2	84.0	E.S.E 1/2 E.	South	4	4	3/4	30.20	47	77	66	66	b.c.sh.	"	6	2
5	5	6	92.6	E.S.E. 1/4 E.	"	5-4	5	1	30.22	48	77	66	64	b.c.	"	4	11
6	5	5	98.1	S.E by E. 3/4 E.	S by W.	6-4	5	1	30.24	48	77	66	64	"	"	8	"
7	4	9	103.0	S.E by E.	"	6-4	4	1	30.20	48	74	66	64	b.c.z.	cumu	4	"
8	4	1/2 0	108.4	S.E by E 1/2 E.	"	5-6	8	1	30.24	48	74	66	65	"	"	8	"
9	4	0	111.4	"	"	4	4	1	30.26	49	76	65	63	b.cu.	cir-cums	9	"
10	5	8	114.5	E.S.E 1/2 E.	"	4	4	1	30.28	48	74	66	62	"	cir-str	9	"
11	6	4	120.4	E.S.E. 3/4 E.	South	4	4	1	30.29	49	78	67	62	"	"	9	"
Noon.	4	2	126.5	E.S.E 1/2 E.	"	4	4	3/4	30.30	49	77	66	63	"	"	9	"

Course and distance made good since preceding noon by observations, East. 181 knots. tenths.

Sq 1/84

Position at Noon:
- Latitude by D. R. — N. 40 ° 04' "
- Longitude by D. R. — W. 53 ° 01' "
- Latitude by observations of ⊙ — N. 39 ° 49' "
- Longitude by chronometer from Forenoon Observations of ⊙ — W. 52 ° 02' "

Position at 8 a. m.
- Latitude by D.R. — N. 39 ° 45' "
- Longitude by Chro DO DO DO — W. 52 ° 26' "

Position at 8 P. M.
- Latitude by D.R. — N. 39 ° 54' "
- Longitude by Chro PM DO DO — W. 51 ° 05' "

Current during the time, 2 knots tenths per hour, setting to the S 68 East.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 8 30 am " W 22 ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water ———— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2650 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 118 " 381 "

P. M.														
1	4	1	130.8	E.S.E. 1/4 E.	South	4	3	3/4	30.29	49	77	66	63	b.cu.w.cir-cum	9	L.
2	4	0	140.4	"	"	4	3	3/4	30.29	48	74	66	63	"	"	9	"
3	4	3	145.5	"	"	4		3/4	30.30	48	74	66	64	"	cumu	9	"
4	4	0	150.0	E.S.E 1/2 E.	"	4		3/4	30.28	48	74	66	64	"	"	9	"
5	4	4	56.8	"	"	4	2	3/4	30.30	49	76	65	64	b.c.	cb	9	"
6	4	0		"	"	3	3	3/4	30.30	48	76	65	64	"	"	8	"
7	4	4	64.4	"	"	3	2	3/4	30.30	48	76	65	64	"	cumulo	7	"
8	5	8	42.5	"	"	3	2	3/4	30.30	48	75	64	64	"	cir cb	9	"
9	4	4	47.4	E.S.E 1/4 E.	"	3		3/4	30.34	47	75	64	64	"	cumu	9	"
10	4	6	53.0	E.S.E 1/2 E.	"	3		1/2	30.36	47	75	64	64	"	"	9	"
11	4	5	58.5	"	"	2-3		1/2	30.38	47	74	63	64	"	"	9	"
Mid.	5	0	92.2	S.S.E. 1/2 E.	S.S.W.	2	3		30.39	47	75	64	64	"	"	9	"

under the command of Commander T. F. Jewell, U. S. Navy,

Tuesday September 14th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M.

Fine weather. Moderate breeze from S. by W. and South. Bright moonlight. Steering by the wind.

W. H. Searing
Lieut U. S. N.

From 4 to 8 A. M.

Clear and pleasant. Stiff to very fresh breeze from South and S. by W. Moderate increasing sea. Ship pitching and rolling easily extreme pole, windward 30° leeward 4°. Extreme pitch 9°. Pumped ship out. at 4.15 took in D. Jib-Sails and at 7.45 took in Jib, at same time changed course to S. E. by E. 1/2 E.

D. T. Waring
Lieut U. S. N.

From 8 A. M. to Meridian

Generally bright, pleasant, cir: cumn and cir: str clouds. Moderate breeze from S. by W. and South. Moderate swell from S. at 9 30 went to Quarters for muster and inspection, after which drilled as follows, 1st Div. Infantry 2d Div. No 1 Crew, use of Tourniquet and resuscitation of apparently drowned, 2d Crew in Loading and use of Hotchkiss Rifle, 3d Div. instruction at Cutlass, 4th Div. Single Sticks, Powder Div. Target Practice with Air Guns Engrs Div. Small Arms. Set T. Jib-Sails and Jibs at 9 15. at end of watch, fine and by, under plain Sail to T. Jib-Sails and Capt Jib and Spanker, course S. E.

A. T. Leighton
Ensign U. S. N.

From Meridian to 4 P. M.

Clear, hazy and pleasant. Light bank of clouds, almost foreign to the W. N. W. Gentle breeze from South. at 1 00 issued clothing. at 1 30 exercised Engrs Div, at Target Practice with air Rifle. at 2 30 exercised 1st Div. Drill. at 3 00 unbent Spanker and stowed in Sail-room. Sea smooth-gentle swell from S

C. D. Galloway
Lieut U. S. N.

From 4 to 8 P. M.

Fine weather. Moderate to gentle breeze from South. Sea smooth with long swell from S. at 5 40 Set M and Miz Topmast Staysails, M Trysail, Spanker and Jib. By the comp.

L. Herring
Lieut U. S. N.

From 8 to 8 P. M.

Clear and pleasant. Gentle breeze from South. Swell from S. at 7.00 took in and furled Mainsail and put cover on. at 7.15 started fires under boilers No. 5, 6, 7 and 8. Took in and stowed M. T. Staysail. Pumped ship out. at end of watch ship under plain Sail to T. Jib-Sails except Mainsail, also Mizzen T. Staysail and Main Trysail. Headed off and steering full and by.

D. T. Waring
Lieut U. S. N.

From 8 P. M. to Midnight

Gradually clear, light cumn clouds, around horizon. Bright moonlight. Light to gentle breeze from South to S. S. W. Long Sly swell. at 10 30 took in and furled T. Jib-Sails and directly afterwards shortened and furled all Square Sail. at 10 53 went ahead on engines, course S. S. E. 1/2 E. Patent-log 86.5 at end of watch on course S. S. E. 1/2 E, under steam and Fore and aft-sail, except T. Jib and M. T. Staysail. Steam 40. Revolutions 39.

A. A. Scanlon
Ensign U. S. N.

Examined and found to be correct.

Morris Declination 9 0° 0' 5" Last Quarter.

A. V. Wadhams.
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

at Seamaking passage to Gibraltar, Spain

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	4	6	94.5	S. S. E. 1/2 E.	S. W. by S.	2	2		30.40	47	46	45	43	b.c.y.	cir. cumu.	6	S.
2	4	3	103.0	"	"	2	2		30.40	46	46	44	43	b.c.y.	"	6	"
3	4	0	108.0	"	"	2	2		30.41	44	46	44	46	"	"	7	"
4	4	0	113.0	"	"	2	3		30.41	44	46	44	46	b.c.y.	"	7	"
5	4	5	118.0	"	S. S. W.	3			30.42	44	46	43	44	"	"	8	"
6	4	4	123.0	"	"	3			30.42	48	46	43	44	"	"	8	"
7	4	4	127.8	"	"	3			30.41	48	46	44	44	"	"	7	"
8	3	5	131.5	"	"	3			30.41	48	44	45	44	"	"	7	"
9	Taking Sup's Sea Soundings				"	3			30.41	49	48	45	44	b.c.	"	7	"
Dq. 7 85 10			50		"	3			30.42	49	48	46	44	"	"	8	"
N 40 W 50 11			50		S. W.	3			30.42	49	49	45	44	"	"	8	"
Noon.	1	0	131.5	N. E.	S. W. by W.	3			30.42	49	49	45	44	"	"	8	"

Course and distance made good since preceding noon by observations, N. E 112 N. / knots tenths.

Dq. 785-

Position at Noon: Latitude by D. R. N. 39 ° 32' "
Longitude by D. R. W. 50 ° 02' "
Latitude by observations of ⊙ N. 40 ° 01' "
Longitude by chronometer from Forenoon Observations of ⊙ W. 49 ° 59' "

Position at 8 a. m. Latitude by D. R. N. 39 ° 59' "
Longitude by Chro Do Do Do W. 50 ° 12' "

Position at 8 P. M. Latitude by D R N. 39 ° 52' "
Longitude by Chro P. M. Do Do W. 48 ° 32' "

Current during the time, / knots tenths per hour, setting to the N 6° W

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 4h 17m " W 25 ° ' "

Water expended during the preceding 24 hours, 400 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1600 "

Coal consumed during the preceding 24 hours, 3 tons 1480 lbs.

Coal remaining on hand at Noon, 114 " 841 "

P. M.												
1	6	4	40.5	S. E. 1/2 E.	S. W. by S.	4	4	1/2	30.38	b.c.	cir. cumu.	8	S.
2	6	4	48.0	"	S. S. W.	4	4	1/2	30.40	"	"	8	"
3	5	0	55.6	"	"	4	4	1/2	30.44	"	cir.	6	"
4	4	0	63.8	"	"	4	3	3/4	30.43	"	cir. cumu.	5	"
5	6	9	71.5	"	S. W. by S.	5	3	1/2	30.43	"	"	5	"
6	6	4	79.0	"	"	5	3	1/2	30.42	"	cir.	2	"
7	6	0	86.5	"	"	5	3		30.40	"	"	4	"
8	6	0	93.3	"	"	5	3		30.40	"	"	6	"
9	4	6	100.0	S. E. 1/4 S.	S. W.	3-4			30.40	b.c.	"	4	"
10	6	1	106.1	"	"	3			30.41	b.c.	"	4	"
11	5	2	112.8	S. E. 1/4 E.	S. W. by W.	3-4			30.42	"	"	4	"
Mid.	4	2	120.0	"	"	4			30.42	"	"	3	"

under the command of Commander T. F. Jewell, U. S. Navy,

Wednesday September 15th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Until 4 A.M.

Clear, mild and pleasant. Gentle to moderate breeze from S.S.W. & occasional clouds passing over from S.S.W. frequently. Bright moonlight. Sea smooth with moderate swell from South. Ship rolling easily 8° to windward, 13° to leeward. Ship under steam and Fore and aft Sail. Speed limited to 5 knots. Steam 40 lbs. Revolutions 24.7

C. D. Galloway
Lieut U. S. N.

From 4 to 8 A.M.

Fair weather. Gentle breeze from S.S.W. Smooth sea. Under steam and Fore and aft Sail. Steering S.S.E. ½ E. At 8th took in Sail, went before the wind, stopped engines and began a sounding with deep sea machine, Lieut Graham in charge. Hauled in patent log when engines stopped, reading 31.5. Steam 40 lbs. Revolutions 24.

W. L. Gearing
Lieut U. S. N.

From 8 A.M. to Meridian.

Clear and pleasant. Gentle breeze from S.S.W. to S.S.W. by W. Ship before the wind, engines backing to keep her steady while sounding. Worked engines and ship to keep coire up and down. At 10.50 finished first cast in 3028 fms. Surveying in Ground coire sinker and parted: expended in Navigation Light 4/1 fms sounding coire and 15 fms Lead Line, one Belknap Sounding Rod and one Sinker. Got ready for second cast and took cast in 3014 fms, bottom grey mud and sand. Expended one Sinker. Sick came up, at 11.50. Called all hands and made all plain sail to Royals save Mainsail and Flying Jib. Went ahead slow. at end of watch ship came to her course S.E. ½ E. Made preparations for distilling. Steam 45 lbs. Revolutions

B. F. Waring
Lieut U. S. N.

From Meridian to 4 P.M.

Clear and pleasant. Moderate breeze from S.W. by S. to S.S.W. at 1 P.M. took in Spanker and Set Flying Jib and Main Topsail. Instructed one Section of Apprentices in Signals. At 1 30 P.M. started distilling. At 2 P.M. uncoupled screw. Made plain sail to Royals except Mainsail and Spanker. Course S.E. ½ E.

C. A. Gauntlett
Ensign U. S. N.

From 4 to 6 P.M.

Clear and pleasant. Moderate to stiff breeze from S.W. by S. Seas smooth. Gentle swell. Distilling.

C. D. Galloway
Lieut U. S. N.

From 6 to 8 P.M.

Fine weather. Stiff breeze from S.W. by S. Seas smooth. At sunset quarters for muster. Distilling. Course S.E. ½ E.

W. L. Gearing.
Lieut U. S. N.

From 8 P.M. to Midnight.

Cloudy but pleasant. Gentle to moderate breeze from S.W. and S.W. by W. At 8.20 changed course to S.E. ¼ S. at 10.50 to S.E. and at 10.52 to S.E. ¼ E. Ship under plain sail to Royals except Mainsail and Spanker. Distilling. Steering a course at end of watch, S.E. ¼ E.

B. F. Waring
Lieut U. S. N.

Examined and found to be correct.

Noon's Declination N 3° 45' Last Quarter.

A. Graham
Lieut
Navigator.

LOG of the UNITED STATES — Steamer "Essex" — 3d Rate,

At Sea making passage to Gibraltar, Spain.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	6	4	124.2	S.E.¼.E.	S.W.by.W.	4			30.40	74	76	74	74	b.c.	cirr	2	S.
2	6	0	130.1	"	W.S.W.	5			30.35	74	76	74	74	"	"	2	"
3	5	6	140.2	"	West	4			30.33	74	76	74	74	o.c.v.	nimb	0	"
4	6	0	146.0	"	"	4			30.32	74	76	74	74	"	"	0	"
5	6	0	151.1	"	W.S.W.	4			30.30	74	76	74	74	o.c.q.	"	0	"
6	6	2	157.9	"	West	4			30.90	76	75	74	74	o.cl.	"	0	"
7	6	4	63.9	"	W.by.N.	5			30.30	76	75	74	78	"	cum nimb	0	"
8	6	2	74.0	"	"	5			30.28	76	73	74	76	o.c.p.	"	0	"
9	2/1	0/9	74.9	E. by E.	W.N.W.	4			30.30	78	76	75	76	b.c.	"	3	"
10					N.W.	4			30.30	78	77	75	76	b.c.g.	"	5	"
11	5	0	80.5	E. by E.	N.N.W.	4-5	2		30.29	77	75	74	76	b.c.h.g.	"	1	"
Noon.	4	5	85.6	"	North	4-5	3	1	30.25	76	75	73	76	"	"	1	"

Course and distance made good since preceding noon by observations, E. by E. ½ E. 178 knots. tenths.

Dy. 785-

Position at Noon:	Latitude by D. R.	N	39 ° 26′ "
	Longitude by D. R.	W	46 ° 52′ "
	Latitude by observations of ⊙	N	39 ° 22′ "
	Longitude by chronometer from Forenoon Observations of ⊙	W	46 ° 17′ "
Position at 8 a. m.	Latitude by D.R.	N	39 ° 23′ "
	Longitude by Chro do do do	W	46 ° 35′ "
Position at 8 P. M.	Latitude by D.R.	N	39 ° 11′ "
	Longitude by Chro P.M. do do	W	45 ° 13′ "

Current during the time, 1 knots tenths per hour, setting to the E. 3/4 S.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ "

Variation of the Compass by Azimuth ⊙ observed at " ° ′ "

Variation of the Compass by Azimuth ⊙ observed at " ° ′ "

Water expended during the preceding 24 hours, 350 gallons.

Water—Distilled during the preceding 24 hours, 1401 "

Water remaining on hand fit for use at Noon, 2650 "

Coal consumed during the preceding 24 hours, 2 tons 2020 lbs.

Coal remaining on hand at Noon, 111 " 1061 "

P. M.																	
1	6	0	91.6	E. by E.	N. E. by N.	4	6	1	30.25	76	75	72	76	o.c.d.	cumulus	0	S.
2	5	7	97.3	E. by E. ¼ E.	"	4	6	1	30.24	76	74	74	76	"	"	0	"
3	6	1	3.4	E. by E. ½ E.	"	4-5	6	1	30.24	76	74	74	76	o.c.	"	0	"
4	6	1	9.5	"	"	4-5	6	1	30.24	76	74	74	76	"	"	0	"
5	6	0	16.3	"	"	4	5	3/4	30.22	76	74	74	76	"	"	0	"
6	5	6	22.8	E. by E.	"	4	5	3/4	30.24	75	74	73	76	"	"	0	"
7	4	0	31.0	S.E. by E. ½ E.	"	5		3/4	30.23	75	73	69	74	"	"	0	"
8	5	8	36.9	E. by E. ¼ E.	"	4		1½	30.23	75	73	69	73	"	"	0	"
9	4	8	42.1	E. by S.	N. N. E.	5-6	8	1½	30.24	73	71	69	73	"	"	0	"
10	3	9	46.2	"	"	5-6	8	1½	30.24	73	71	66	73	o.cg.	"	0	"
11	4	0	50.1	E. ¼ S.	"	5-6	9	2	30.23	72	71	66	73	"	"	0	"
Mid.	3	8	58.8	E. ½ S.	"	6-7	9	2½	30.23	72	70	65	73	"	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,

Thursday September 16th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commenced & Until 4 A. M.

Cloudy first half of watch, overcast & raining last half. Moderate to stiff breeze from S.W. by W. to West. Barometer falling slowly. Steering course S.E. ¼ E. At 2m. took in Royals & Flying Jib. Distilling. At end of watch under Main Trisail & plain sail to T. Gft Sails except Mainsail & Spanker.

A. F. Leighton
Ensign U. S. N.

From 4. to 8. A. M.

Cloudy with passing showers. Moderate to stiff breeze from W. by N. Heavy banks of clouds around horizon to S. & E. At 5m. set Royals. Sea smooth. Ship steady.

C. D. Galloway
Lieut U. S. N.

From 8. A. M. to Meridian.

Weather cloudy with frequent light squalls & passing rain showers. Moderate breeze from W.N.W. veering during watch to North. Sea smooth. Barometer falling slowly. At 8m. changed course to E. by S. At 8m. shortened & furled all sail preparatory to sounding with deep sea machine. Stopped distilling. Spread fires. Hauled in patent log with the log reading 44.9 knots. Put ship before wind & began backing on engines at 8 4m. Ship very easy & steady with engines turning slowly astern. Began the sounding, cast No. 6, Navigator in charge, at 9 10. Got a cast in 2043 fms, bottom of grey mud & fine sand, black specks. Expended, no sinker. Wire reeled in at 10.08, time 58 minutes. Called all hands at 10.0m & made plain sail to Royals, except Flying Jib, Mainsail, M. Trisail, Spanker & Jaff Topsail. Set course E. by E. Banked fires. At 11 45 began distilling into the tanks. Put patent log over at 10.15. At 11.10 took in & furled the Royals to a light squall. The Commander Cmdg awarded the following punishments viz: F. J. Gifford 2 C. apl. W. C. Hammond 1 C. apl. three weeks extra duty for clothes in lucky bag, for the same offence A. Bergman 1 C. apl, Jno Middleton Sea apl 2 e, W. J. Mc. Fadden Sea. apl. 2 e, L. J. Heinkaucht Sea apl 2 e, one weeks extra duty, Jno Hartel 1 C. apl, two weeks extra duty for not sweeping down deck properly, W. D. Lynch 1 C apl, two weeks extra duty, two (2) hours each day for, carelessness & inattention while stationed at engine-room bell, P. E. Harvey Sea. apl. 2 e, three weeks extra duty for failing to pass hail while in lookout. At end of watch patent log read 85.6.

H. Helgesaning,
Lieut U. S. N.

From Meridian to 4. P. M.

Overcast threatening rain with light drizzle first two hours. Moderate to stiff breezes from N. E. by N. At 2 30m instructed 2m Yeoman Signal men at Morse Code Signals. By the wind on port tack under plain sail to T. Gft Sails save Mainsail & Spanker, also M. Trysail. Fires banked. Distilling.

D. H. Wallingford
Lieut U. S. N.

From 4. to 6. P. M.

Overcast & cloudy. Moderate breeze from N. E. by N. Under Main Trysail & plain sail to T. Gft Sails except Mainsail & Spanker. Close hauled. Course E. by S. Distilling.

A. F. Leighton
Ensign U. S. N.

From 6. to 8. P. M.

Overcast with stiff breeze from N. E. by N. increasing to a very fresh breeze last hour. At 6 0m took in & furled T. Gft Sails. At 7m 0s took two reefs in Topsails. At 7m 0s took in & stowed Jib. Sea smooth. Cuttle fish from N. E. At 8 stopped distilling. Patent log 36.9.

C. D. Galloway
Lieut U. S. N.

From 8. P. M. to Midnight

Stiff to very fresh breeze from N. N. E. Weather, overcast with obscured moonlight. Barometer steady. Moderate roughening sea. Ship rolling deeply but easily. Steering by the wind. Patent log at 12, 58.3.

H. Helgesaning.
Lieut U. S. N.

Examined and found to be correct.

Morris Seelmacher N. 21° 29 Last Quarter.

A. Wallington
Lieut & Navigator.

LOG of the UNITED STATES — Steamer "Essex", 30 Rate,

At Sea making passage to Gibraltar, Spain.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	Force.	Heel.	Leeway.	BAROMETER. Height in inches.	Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	Air, Wet Bulb.	Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	2	9	56.7	E. & E. ½ E.	N. N. E.	6-7	15	4	30.28	41	69	64	74	hc.	cum	5	R.
2	2	8	59.5	E. E. by E. ½ E.	N. E.	5-7		4	30.23	41	69	63	74	"	"	5	"
3	1 5/6	5	61.5	N. N. W. ½ W.	"	5-7		4	30.23	41	69	63	74	"	"	5	"
4	2	0	63.5	"	"	6-7		4	30.24	40	68	62	74	"	"	5	"
5	1	0		N. W. by N.	"	4-6		4	30.24	40	69	64	73	hcf.	"	3	"
6	0	6	64.1	N. by W.	N. E. by N.	4-6		6	30.26	40	69	63	73	"	cir. cum	3	"
7	0	4	64.4	"	"	4-6		6	30.28	40	69	63	73	"	"	3	"
8	0	5		"	"	4-6		6	30.29	40	69	63	73	"	"	3	"
9	1	0		N. N. W.	N. E. by E.	6-7		4	30.28	69	68	64	73	"	"	3	"
10	1	0	64.1	"	"	6-7		4	30.30	68	67	63	73	"	"	4	"
11	1	0	64.9	N. W. by N.	N. E.	6-7	5	4	30.32	68	67	63	73	"	"	5	"
Noon.	0	4	65.3	"	"	6-7	5	4	30	69	68	63	73	"	"	4	"

Course and distance made good since preceding noon by observations, E. ½ N. 59 knots. tenths.

Dy. 785

Position at Noon:
- Latitude by D. R. — N. 39 ° 01' "
- Longitude by D. R. — W. 44 ° 59' "
- Latitude by observations of ⊙ — N. 39 ° 26' "
- Longitude by chronometer from Forenoon Observations of ⊙ — W. 45 ° 03' "

Position at 8 a. m.
- Latitude by D. R. — N. 39 ° 24' "
- Longitude by Chron do do do — W. 44 ° 55' "

Position at 8 P. M.
- Latitude by D. R. — N. 39 ° 18' "
- Longitude by Chron P. M. do do — W. 44 ° 58' "

Current during the time, 2 knots 4 tenths per hour, setting to the N. ½ W.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head — ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " — ° ' "

Variation of the Compass by Azimuth ⊙ observed at " — ° ' "

Variation of the Compass by Azimuth ⊙ observed at 4 P. M. " — W 24 ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water Distilled during the preceding 24 hours, 450 "

Water remaining on hand fit for use at Noon, 2450 "

Coal consumed during the preceding 24 hours, 3 tons 1080 lbs.

Coal remaining on hand at Noon, 107 " 1221 "

P. M.														
1	1	0	65.6	N. N. W.	N. E.	5	1	4	30.30	69	68	62	73	hc.	cum	4	L.
2	1	0	65.8	"	"	4	1	5	30.30	69	68	62	73	"	"	4	"
3	1	0	66.0	"	"	4.5	1	5	30.30	69	68	62	73	"	"	4	"
4	1	3	66.2	"	"	4.5	1	5	30.31	69	67	62	73	"	"	4	"
5	1	0	67.5	"	"	4.5		6	30.31	69	67	62	72	hcg.	"	4	"
6	1	3	68.7	N. N. W. ½ W. & E. by S.	"	4-5		4	30.34	69	67	62	72	"	"	8	"
7	5	6	75.0	S. E. ½ E.	N. E. by E.	4	5	3/4	30.38	70	67	62	73	hc	"	4	"
8	5	6	81.8	S. E. 3/4 S.	N. E.	4	5	3/4	30.32	70	67	62	73	"	"	4	"
9	5	8	89.0	S. E. ½ S.	E. N. E.	4.5	5	1	30.32	70	68	63	72	hcg.	rain	8	R.
10	6	2	95.5	S. E. by S.	"	4-5	5	1	30.32	70	69	63	72	"	"	5	"
11	5	5	101.9	S. S. E. 1/4 E.	E. by N.	4-5	5	1	30.31	70	68	64	72	"	"	5	"
Mid.	5	5	107.9	"	"	4-5	5	1	30.30	69	68	64	73	"	"	4	"

Dy. 786 — N. 39° 18' W. 45°

under the command of Commander T. F. Jewett, U. S. Navy,

Friday September 17th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Until 4 A. M.

Generally clear, scud flying over continually. Fresh to very fresh breeze from N. N. E. Stiff to very fresh breeze from N. E. Heavy sea from N. N. E. Ship rolling and pitching deeply, extreme roll 30° to leeward and 15° to windward. Extreme pitch 15° at 1.20 hooks in Foresail. at 2.00 wore ship to N. and W. at 3.00 close reefed Fore Topsail. at end of watch steering close to the wind under double reefed Main Topsail, close reefed fore Topsail, Jib and Main Trysail. Sea increasing. Barometer apparently steady. Bright moonlight.

D. V. Wessing
Lieut U. S. N.

From 4 to 8 A. M.

Cloudy and squally. Moderate to fresh breeze from N. E. and N. E. by N. Sea rough. Ship rolling and pitching heavily. At 4h 5m Spread fires. At 4h 20m furled Fore Topsail. At 4h 30m coupled screw and started ahead with engines, taking in Main Topsail at same time. At end of watch ship laying to, under fore Topsail and Staysail and Main Trysail, engines just turning over. Steam at 1 Revolutions 18. Sent down Royal Yards, at 5h 20m.

C. F. Dewitt
Ensign U. S. N.

From 8 A. M. to Meridian

Clearing with fresh breeze from N. E. by N. and N. E. Long heavy swell from North. Moderate sea. At 9h 0m Set double reefed Main Topsail. At 9h 20m Shackled engines, banked fires and uncoupled propeller. At 10h 0m Put over Patent log reading 6 4/10 knots.

E. D. Galloway
Lieut U. S. N.

From Meridian to 4 P. M.

Fine clear weather. Moderate to stiff breeze from N. E. Long decreasing swell from N. N. E. Ship lying to, on Starboard tack. At 3h 0m passed over distinctly marked line of gulf weed running N. N. E. and S. S. W. At 12h 30m Set Spanker. Yeast was found in good condition the ships outfits of fine Yeast Powder Figs.

D. V. Wessing
Lieut U. S. N.

From 4 to 6 P. M.

Clear and cool. Moderate to stiff breeze in light squalls from N. E. by E. to N. E. by N. At 5 shook out reef, out of Main Topsail and set Fore Topsail single reefed. At 5.10 set Jib and T. Gib sails. Wore ship to S. and E. at 5.40. Long swell from N. N. E. Ship rolling easily 8° to 10° to leeward and 8° to 10° to windward.

D. V. Wessing
Lieut U. S. N.

From 6 to 8 P. M.

Clear and pleasant. Moderate breeze from N. E. by E. and N. E. Long sea from N. N. E. Under single reefed Topsails, T. Gib Sails, Jib F. T. Staysail, Foresail, M. Trysail and Spanker. Close hauled. Starts distilling at 7h 0m. At 6.30 exercised at Fire Quarters, last stream 2' 20".

C. F. Dewitt
Ensign U. S. N.

From 8 P. M. to Meridian

Fair and cool. Moderate to stiff breeze from E. by N. Smooth sea but with long heavy swell from N. E. Ship rolling deeply but easily. Hove to, at 9h 0m. Distilling.

E. D. Galloway
Lieut U. S. N.

Examined and found to be correct.

C. F. Dewitt
Lieut U. S. N. Navigator.

Mean's Declination N 10° 5' / Last Quarter.

LOG of the UNITED STATES Steamer "Essex" 3d, Rate,

At Sea making passage to Gibraltar, Spain.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	5	6	14.4	S. E.	N. E.	4-5	8	1½	30.28	68	68	63½	73	b.c.y.	cum	8	R.
2	5	8	20.3			4	8	1½	30.26	68	64	64	73	b.c.	"	3	"
3	5	5	25.4	S.E. ½ E.	N.E. by E.	4	7	1½	30.25	68	64	63	73	"	cir. cum	6	"
4	4	0	30.0	S.E.	"	3-4	7	1½	30.29	68	64	64	73	"	"	7	"
5	4	7	35.4	"	"	3-4		½	30.28	68	64	64	73	"	"	4	"
6	4	4	40.1	"	"	3-4		½	30.30	69	64	64	73	"	"	5	"
7	3	7	43.8	"	"	3-4		½	30.28	69	64	64	73	"	"	6	"
8	2	6	46.5	"	"	2-3		½	30.26	69	64	64	73	"	"	5	"
9	0 1	6 1	48.2	N. E. ½ E.	N. E. by N.	3			30.24	69	65	65	73	"	"	5	"
10	3	6	02.0	"	"	3			30.30	71	70	66	74	"	"	5	"
11	4	3 3	09.6	East	"	3			30.32	71	69	69	74	"	"	6	"
Noon.	5	2	63.6	"	"	3			30.34	71	69	66	74	"	"	7	"

Course and distance made good since preceding noon by observations, E. by S. 66 knots tenths.

Position at Noon:
- Latitude by D. R. — N. 38 ° 47 "
- Longitude by D. R. — W. 43 ° 44 "
- Latitude by observations of ⊙ — N. 39 ° 11 "
- Longitude by chronometer from Forenoon Observations of ⊙ — W. 43 ° 39 "

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Position at 8 a. m.:
- Latitude by D.R. — N. 39 ° 18 "
- Longitude by Chro Do Do Do — W. 43 ° 58 "

Position at 8 P. M.:
- Latitude by D.R. — N. 39 ° 20 "
- Longitude by Chro P.M. Do Do — W 43 ° 06 "

Current during the time, 1 knots tenths per hour, setting to the N. ¾ E.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 7.30 a.m. " W 24 ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water Distilled during the preceding 24 hours, 350 "

Water remaining on hand fit for use at Noon, 2450 "

Coal consumed during the preceding 24 hours, 3 tons 980 lbs.

Coal remaining on hand at Noon, 104 " 241 "

P. M.													
1	4	6 68.8	East	N. E. by N.	3			30.33	70	69	67½	b.c.	cir cum	5	4
2	4	8 73.0	"	"	3			30.33	70	69	67½	"	"	6	"
3	4	0 77.8	"	N. N. E.	3			30.34	70	70	68½	"	"	6	"
4	Sounding		"	North	3			30.34	70	70	68½	"	cum	5	"
5	2	5 80.5	"	"	3	2	¼	30.35	71	69	68½	"	cir	5	2
6	5	0 84.3	"	"	3	3	½	30.35	70	69	68½	"	"	3	"
7	6	0 94.8	"	"	3	2		30.36	70	69	63½	"	"	3	"
8	6	7 101.5	"	"	4	2		30.36	71	69	64½	"	cir	4	"
9	Sounding		"	"	3			30.35	71	69	68½	"	cum	9	"
10	Dr		"	"	3			30.34	72	70	69	"	"	8	"
11	3	4	"	N. W.	8			30.34	72	69	68	"	"	9	"
Mid.	5	4 16.7	"	"	3			30.34	72	68	67½	"	"		

under the command of Commander T. F. Jewell, U. S. Navy,
Saturday September 18th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends at 4 A.M.

Fine weather. Stiff to moderate breeze from N.E. by E. Rough decreasing sea with a long swell from N.N.E. to which ship rolled deeply at times. Shafted, distilling at 4a.m., the tanks being full.

H. G. Georgius
Lieut U. S. N.

From 4 to 8 A.M.

Clear and pleasant. Moderate to light, decreasing breeze from N.E. by N. Long swell from N.N.E. Ship rolling and deeply at times. Extreme roll, leeward 30°, windward 12°. Extreme pitch 12°. at 6. shook reefs out of Topsails. Steering by the wind, at 8, in port tack under all plain sail to T. Gaff Sails except Mainsail. Also Main Trysail at 7.20 spread fires. Steam reported ready at 7.45.

B. H. Wallace
Lieut U. S. N.

From 8 A.M. to Meridian.

Partly clear, bright, pleasant. Cirro cumulous. Gentle breeze from N.E. by N. Moderate sea with long N.E. swell. At 8.5a started to take in sail & did, finished at 8.20, went ahead on engines, rec'd bell at 8.10 & bells at 8.20, in course N.E. ½ E. Patent log 49.1. At 10.0a changed course to East. Patent log 53.3 and set Fore and Aft Sail except M.T. Staysail also set Foresail. At 11.50 hook in and furled Foresail. at 10.20a sighted a sail 3 points on lee bow, which proved to be a barkentine standing to S. at end of watch sail fore 3 pts abaft lee beam. Under steam and Fore and Aft sail, except M.T. Staysail, in course East. Ship rolling heavily at times. Greatest lee roll 20°, weather roll 5°.

E. A. F. Dewitt
Ensign U. S. N.

From Meridian to 4 P.M.

Clear and pleasant. Gentle breeze from N.E. by N. to W. at 2.0 hook in, all Fore and Aft sails. Slowed engines and Got sounding 264 fms. wire parted while veering in looking 1700 fms wire 15 fms Stray line, 1 Sigsbee's Sounding Rod and Detacher and 1 Sinker cast No. 6. Working engines to keep ship head to wind. Sea smooth with occasional heavy swell from N. Extreme roll of ship to leeward 24°.

E. R. Galloway
Lieut U. S. N.

From 4 to 6 P.M.

Clear and pleasant weather. Gentle increasing breeze from North. Sea smooth with swell from S.S.E. at 4.50 finished taking Sounding. Went ahead, in engines course East. Set Fore and aft sail except M.T. Staysail and Gaff Topsail, F. and M. Topsails and Foresail. at end of watch carrying the above sail. Patent log at 6, 84.3.

H. G. Georgius
Lieut U. S. N.

From 6 to 8 P.M.

Clear and pleasant. Gentle breeze from North. Steering a course East. Under steam and Topsails, Foresail, Jib, Trysail, Spanker, Fore and Mizzen T. Staysails. Long swell from N. and E.

B. H. Wallace
Lieut U. S. N.

From 8 P.M. to Midnight.

Clear. Moderate breeze from N. and N.W. At 8.20 hook in sail and rounded in 264 fms gray ooze. Expended one Sinker. At 10.25 Sighted ahead steaming and made sail to T. Gaff Sails at 11 crowed Royal Yards and at 11.30 set the Royals. Patent log at end of watch 16.7. Course East. At end watch under M. Trysail Mizz T. Staysail and Spanker.

Examined and found to be correct.
Sail except Mainsail.

A. F. Dewitt
Ensign U. S. N.
A. V. Wadhams
Lieut and Navigator.

Mean Declination N 13°59' Last Quarter

LOG of the UNITED STATES Steamer "Essex" 3d ," Rate,

At Sea making passage to Gibraltar, Spain

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	7	0	23.1	East	W. N. W	4			30.34	70	68	63	71	b. c.	cir cum	8	9
2	6	0	28.9	"	"	4			30.34	70	68	63	72	"	"	8	"
3	5	8	34.1	"	"	4-5			30.34	70	69	64	73	b.	"	8	"
4	6	0	39.6	"	"	5			30.34	70	69	64	74	"	"	8	"
5	6	0	46.6	"	N. W. by W.	4	5		30.34	71	69	63	73	"	"	9	2
6	6	2	54.0	"	"	4	5		30.32	71	69	63	73	b. c.	"	9	"
7	6	5	61.0	"	"	4	5		30.31	71	70	64	73	"	"	9	"
8	6	5	68.3	"	"	4	8		30.31	71	70	65	73	"	"	8	"
9	6	3	75.4	"	N. W.	4	3		30.30	71	71	65	74	"	cir	7	"
10	6	0	82.6	"	"	4	4		30.32	72	72	66	74	"	"	7	"
11	6	0	89.1	"	"	4	3		30.32	73	72	66	72	"	"	7	2
Noon.	6	0	93.9	"	"	4	3		30.31	73	72	66	72	"	cir cum	7	"

Course and distance made good since preceding noon by observations, E. N. E. 3/4 E 10 7/ knots tenths.

Position at Noon:
- Latitude by D. R. — N. 39 . 35 . "
- Longitude by D. R. — W. 40 . 54 . "
- Latitude by observations of ⊙ — N. 39 . 38 . "
- Longitude by chronometer from Forenoon Observations of ⊙ — W. 41 . 26 . "

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Position at 8 a. m.
- Latitude by D. R. — N. 39 . 29 . "
- Longitude by Chro do do do — W. 41 . 00 . "

Position at 8 P. M.
- Latitude by D. R. — N. 40 . 02 . "
- Longitude by Chro P M do do — W 40 . 08 . "

Current during the time, 1 knots 1 tenths per hour, setting to the S. W. 3/4. W.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head . . "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " . . "

Variation of the Compass by Azimuth ⊙ observed at " . . "

Variation of the Compass by Azimuth ⊙ observed at 7 52 A. M. W 26 . . "

Water expended during the preceding 24 hours, 350 gallons.

Water ——— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2400 "

Coal consumed during the preceding 24 hours, 2 tons 2020 lbs.

Coal remaining on hand at Noon, 101 " 461 "

P. M.												
1	6	0	100.4	East	N. W.	4	8	30.20	73	72	68	72
2	6	2	7.0	"	N. W. by N.	4-5	8	30.20	74	72	68	72
3	5	6	14.0	E. by N.	"	4-5	8	30.18	74	73	68	72
4	6	6	21.1	"	"	4-5	8	30.18	74	73	68	72
5	6	6	29.9	"	N. W.	6	8	30.18	73	72	68	73
6	7	0	36.4	"	"	7	8	30.19	73	73	68	72
7	7	0	44.0	"	"	6		30.19	73	73	69	72
8	7	0	51.6	"	"	6		30.19	73	73	69	72
9	7	6	59.2	"	"	6		30.20	76	73	68	72
10	7	9	67.1	"	"	6		30.20	74	73	68	72
11	7	8	74.9	"	"	6		30.20	74	73	68	72
Mid.	7	5	82.5	"	"	6-7		30.16	74	73	68	72

Dy 802 N 40 W 40.04

under the command of Commander T. F. Jewell, U. S. Navy,

Sunday September 19th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Yuctie A. M.

Clear and pleasant. Moderate to stiff breeze from W. to N. W. Smooth sea. Occasional long swell from N. at 1st shipped engines, hauled fires, uncoupled screw. At 2d lowered stock. Set lee clew of Mainsail. Took in Main Trysail. Set M. T. Staysail. At 3d hauled in patent log and cleared line of kinks and heaved. At 3½ put it over. Bright moonlight. At end of watch patent log 39.6.

C. P. Galloway
Lieut U. S. N.

From 4 to 8 A. M.

Fine, clear weather. Moderate breeze from N. W. by W. Sea smooth. Barometer steady. No change of sail, carried. Patent log 63 at end of watch.

H. Helsearing,
Lieut U. S. N.

From 8 A. M. to Meridian.

Clear and pleasant. Moderate breezes from N. W. Steering a course East, under all plain sail to Royals except Spanker and heavier clew of Mainsail, also M. Trysail M and Miz. T. Staysail. At 9.50 Cmdg Officer inspected ship, watch, crew, at Quarters. Light airs from N. E.

D. Walling
Lieut U. S. N.

From Meridian to 4 P. M.

Clear and pleasant. Moderate to stiff breeze from N. W. and N. W. by N. Barometer falling. Long sea from N. E. At 12.5 changed course to E. ¼ N. At 2d changed course to E. by N. Patent log reading 82. At 2d set Royals. Flying Jib and heavier clew of Mainsail. Took in Spanker. At end of watch under M and Miz Topmast Staysail and plain sail to T. Gaff Sails except Spanker.

A. T. Jewett
Ensign U. S. N.

From 4 to 6 P. M.

Clear, cool and pleasant. Fresh to very fresh breeze from N. W. Sea smooth but with occasional heavy swell from North. Ship pooling deeply at times, but easily. Barometer steady. Passing cirrus and cirro-cumulus clouds from N. W.

C. P. Galloway
Lieut U. S. N.

From 6 to 8 P. M.

Clear and pleasant weather. Fresh N. W. breeze. Moderate sea with occasional long swell from North. No change in sail, carried.

H. Helsearing.
Lieut U. S. N.

From 8 P. M. to Midnight

Clear and pleasant until last hour when clouding over. Fresh to very fresh steady breezes from N. W. Ship pooling and pitching easily. Extreme roll 22°. Extreme pitch 15°. Long moderate sea from N. by W. At 10.50 took in M. T. Staysail. At 11.00 took in and furled Mainsail. At 12.00 Started fires in No 1 and 2 boilers. Pumped ship out. Set Main Trysail at 11.40. Steering a course E. by N. Barometer falling.

D. Walling
Lieut U. S. N.

Examined and found to be correct.

Moon's Declination N. 16° 4' Last Quarter.

A. T. Wadhams
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex" 3d "Rate,

At Sea making passage to Gibraltar, Spain.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	6	0	89.4	E. by N.	N.W.	4-5	10		30.10	42	69	68	43	o.c.r.g.	nmb	0	H.
2	2	6	96.6	E. 1/2 N.	North	3-4	5	3/4	30.09	41	68	67	42	o.c.g.	"	0	"
3	2	6	95.8	E. 3/4 N.	"	3-4	5	2	30.10	41	69	65	42	b.c.	cim	2	"
4	3	0	99.9	E. by N.	"	4	5	2	30.10	40	68	64	42	"	cir cim	4	"
5	3	0	103.8	"	"	4-5		2	30.10	40	68	64	42	"	"	5	L.
6	5	2	109.5	"	"	5		1	30.10	40	68	64	41	"	"	3	"
7	6	0	114.8	E. 1/2 N.	"	5			30.14	69	68	65	41	"	"	5	H.
8	6	0	120.5	East	N. N. E.	5			30.16	68	66	61	41	"	"	6	"
9	4	2	124.8	"	"	4-5	1		30.15	68	66	61	40	"	"	6	"
10	4	1	129.9	"	"	4-5	1		30.15	68	66	60	40	b.c.f.	"	5	"
11	2	0	Sounding	"	N. by W.	4			30.14	40	68	62	40	"	"	5	"
Noon.	1	0	138.5	E. by S.	North	4	1		30.16	69	64	61	40	b.c.	"	5	"

Course and distance made good since preceding noon by observations, N. E. by E. 3/4 E. 14 knots. tenths.

Dg. 802

Position at Noon:	Latitude by D. R.	N. 40 ° 36'	"
	Longitude by D. R.	W. 38 ° 49'	"
	Latitude by observations of ⊙	N. 40 ° 38'	"
	Longitude by chronometer from Forenoon Observations of ⊙	W. 38 ° 40'	"
Position at 8 a. m.	Latitude by D. R.	N 40 ° 32	"
	Longitude by Chro Do Do Do	W 39 ° 04'	"
Position at 8 P. M.	Latitude by D R	N 40 ° 29'	"
	Longitude by Chro P.M Do Do	W 37 ° 43'	"

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 4 52 " East W 28 ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2050 "

Coal consumed during the preceding 24 hours, 3 tons 880 lbs.

Coal remaining on hand at Noon, 94 " 1821 "

P. M.																	
1	1	2	45.3	E. by S. 1/2 S. E. by S. E. 1/2 E.	North	3			30.18	69	67	62	40	b.c.	cir cum	5	L.
2	4	4	50.0	"	"	3-4			30.20	69	67	61	40	"	"	6	"
3	4	4	55.1	"	"	4			30.20	69	67	61	40	"	"	6	"
4	4	2	59.5	"	"	4			30.18	70	67	61	40	"	"	6	"
5	4	4	64.2	S. E. 1/2 E.	"	3-4			30.20	69	66	61	40	"	"	6	H.
6	4	4	68.4	"	"	3-4			30.22	69	66	62	40	"	"	2	"
7	4	2	72.5	"	"	3-4			30.22	69	66	62	41	"	"	2	"
8	3	5	76.0	"	"	3			30.23	68	66	63	41	"	"	2	"
9	3	5	78.5	"	"	3			30.24	68	66	64	40	"	"	8	"
10	1	5	80.0	"	"	2	1		30.24	68	67	65	40	"	"	9	"
11	1	2	80.2	"	"	2	1		30.25	68	67	65	40	"	clr	8	"
Mid.	1	2		"	"	2	1		30.25	68	67	66	41	"	cir clr	8	"

under the command of Commander T. T. Pierce, U. S. Navy,

Monday September 20th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M.

Overcast cloudy and squally first part. rainy first hour. Clouds wind and current. Clearing latter part. Moderate to stiff breeze from N.W. first hour shifting suddenly at 1/30 to South. Gentle to moderate breeze from South afterwards. At 1 o'c took in and furled T. Gib Sails and Mizzen T. Staysail. At 2 o'c double reefed Topsails. At 2 30 set Spanker. Moderate sea, with long swell from N. to which vessel rolled deeply at times. Greatest roll to leeward 20°. At 2 o'c started fires under No. 3 boiler and at 2 30 under No 4. at end of watch fired by, under plain sail to, double reefed Topsails with F.T. Staysail and M Trysail

A. F. Teschan
Ensign U.S.N.

From 4 to 8 A.M.

Clear and pleasant. Stiff to fresh breeze from N.N.E. Smooth sea with long swell. Ship rolling deeply but easily, extreme roll 26°. At 5 o'c shook reefs out of Topsails. At 5 15 started ahead, on engines. At 7 25 o'c took in all sail except Spanker. Stopped engines and brought ship head to wind. At 7 35 o'c set Fore and aft Sails and stood course East under Steam and Fore and aft Sails except Flying Jib. Steam 50 lbs. Revolutions 38.

E. D. Galloway
Lieut U.S.N.

From 8 A.M. to Meridian.

Clear and pleasant weather. Moderate breeze from N.N.E. and N. by W. At 8 45 set Foresail and Mizzen T. Staysail. At 9 30 Quarters for inspection. 2d Div. inattention in Gunnery. At 10 20 stopped engines, shortened and furled Sail, put ship before wind and made leeway. cast in 2602 fms bottom Grey mud and fine sand. At 11 40 called all hands and made plain sail to Royals except Spanker, Mainsail and Gaff Topsail, going ahead on engines, course E by S. At noon, changed course to E.S.E. 1/2 E.

H. H. Gearing
Lieut U.S.N.

From Meridian to 4 P.M.

Partly clear, bright, pleasant. Occasional clouds. Gentle to moderate breeze from South. Smooth sea with N'ly swell. At 12 15 changed course to S.E. by E. 1/2 E. Patent log No. 2. At 12 30 changed course to S.E. 1/2 E. Patent log 41.9. At 12 37 stopped engines and uncoupled, banked fires. Breaking out fore hold. Quarterly Board examining Apprentices. At end of watch, as course S.E. 1/2 E. under plain sail to Royals with F.T. Staysail and Main Trysail, except Mainsail and Spanker. Ship rolling at times, greatest lee roll 15°, usually 10°.

H. C. Poindexter
Ensign U.S.N.

From 4 to 6 P.M.

Clear and pleasant. Gentle to moderate breeze from South. Long sea from South. Engaged in restowing fore hold. Under M Trysail and plain Sail to Royals except Mainsail and Spanker. Course S.E. 1/2 E.

A. F. Teschan
Ensign U.S.N.

From 6 to 8 P.M.

Clear, cool and pleasant. Light breeze from South. Engaged restowing fore hold. Sea smooth with long swell from South.

E. D. Galloway
Lieut U.S.N.

From 8 P.M. to Midnight.

Clear, cool and pleasant. Light, decreasing breeze from South. At end of watch breeze springing up again from N.W. Finished restowing fore hold. Moon rose at 10 45. Bailed up Main Trysail at 11 0'c. Course S.E. 1/2 E. Sail at 12 00, Head Sails and Square Sails to Royals.

Examined and found to be correct.

H. H. Gearing
Lieut U.S.N.

Moon's Declination N. 18° 2' Last Quarter.

A. F. Wadleigh
Lieut
Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to Gibraltar, Spain.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	1	2	84.1	S. E by E.	W. N. W.	1			30.25	69	64	64	71	b.c.	cumr str	6	S.
2	1	4	85.	S E 3/4 E.	"	1			30.24	69	64	63	71	"	"	3	"
3	3	9	88.9	S. E 1/2 E.	"	2			30.24	68	64	63	71	"	"	4	"
4	6	4	95.0	"	"	2			30.24	68	64	63	71	"	"	5	"
5	1	8		"	"	2			30.29	69	64	63	71	"	str	5	"
6	Sounding				"	2			30.30	69	64	62	71	"	cumr	6	"
7	3	8	105.8	E by E 3/4 E.	S W.	2-3			30.29	70	64	64	71	"	"	4	"
8	6	0	120	"	"	3-4			30.30	71	70	65	71	"	"	4	"
9	6	2	19.0	"	"	3			30.30	71	70	65	71	"	str	4	"
10	2	0		N. E by E 3/4 E	"	3			30.30	71	70	65	71	"	"	6	"
11	4	0		E by E 3/4 E.	"	3			30.31	72	71	66	71	"	"	4	"
Noon.	Sounding				"	3			30.32	72	72	66	71	"	cir cumr	4	"

Course and distance made good since preceding noon by observations, E 1/4 S 91 knots. tenths.

Rg. 802

Position at Noon:
- Latitude by D. R. — N. 40 ° 36' "
- Longitude by D. R. — W. 36 ° 46' "
- Latitude by observations of ⊙ — N. 40 ° 31' "
- Longitude by chronometer from Forenoon Observations of ⊙ — W. 36 ° 41' "

Position at 8 a. m.
- Latitude by D. R. — N. 40 ° 22' "
- Longitude by Chro do do do — W. 36 ° 55' "

Position at 8 P. M.
- Latitude by D. R. — N. 40 ° 35' "
- Longitude by Chro P. M. do do — W. 36 ° 35' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 2 45 " A. M. W 26 ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1200 "

Coal consumed during the preceding 24 hours, 4 tons 1030 lbs.

Coal remaining on hand at Noon, 93 " 791 "

P. M.												
1	3	5	29.	N. E. by N.	S. W.	4	0	30.32	73	72	b.c.	cir cumr	6	S.
2	6	5	35.9	"	"	4	0	30.32	73	72	"	cir cir str	4	"
3	Sounding				"	4	0	30.30	73	72	"	cir cumr	5	"
4	do				"	5	0	30.29	73	72	"	"	0	"
5	4	0	36.0	S. S. W.	W. S. W.	5		30.25	74	72	"	str	6	"
6	5	6	40.3	S by W. 1/2 W.	S. W. by W.	5		30.25	74	72	"	cumr nmb	7	"
7	5	0	45.8	"	"	4		30.25	74	72	"	nmb	4	"
8			51.0	Sounding	"	4		30.26	74	72	b.c.	cir	5	"
9				do	"	4-5		30.28	74	72	b.c.	cir cumr	5	"
10	4	6	56.5	S. by W.	S. W.	4.5		30.29	74	72	b.c.	"	5	"
11	6	0	62.4	S. S W.	"	5		30.30	74	72	"	"	2	"
Mid.	6	0	69.0	S. by W.	S S W by W.	5		30.31	74	72	"	"	2	"

under the command of Commander L. F. Fowler, U. S. Navy,

Tuesday September 21st, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M.

Clear and pleasant. Bright moonlight and starlight. Light and breezes from W.N.W. at beginning of watch ship under plain sail to Royals except Mainsail and Spanker. At 2.30 took in Flying Jib and S.T. Staysail. At 1.15 took in light sails and spread fires. At 2.20 steam reported ready, went ahead fires speed, on course S.E. ½ E. until 2.30 not enough headway to keep to course. Ship rolling deeply at short intervals with occasional deep roll. Extreme roll 30° Starboard 26° port. Barometer steady.

D.D. Wagstaff
Lieut U.S.N.

From 4 to 8 A.M.

Weather pleasant: partially cloudy. Light breeze from S.W. increasing to moderate breeze, at end of watch. Long sea from N.N.E. At 4.30 took in all sail. At 5.10 put ship before wind and sounded in 25½ fms water, gray mud and fine sand. Expended one Sinker. At 6.20 Steamed ahead course E.N.E. ¾ E. At 7.10 made sail. At end of watch under T'Gallants, T'Gallt Sails, Royals and Fore Course. Steam 40 lbs. Revolutions 30.

C.A. Teghtmeyer
Ensign U.S.N.

From 8 A.M. to Meridian

Clear. Moderate breeze from S.W. Sighted a bargue heading about N.W. at 8 A.M. at 9 AM. changed course to E. by S. ¾ S. by order of Comdg Officer and to E.N.E. ¾ E. at 9.20 at. At 9.40 took in and furled sail and started sounding. Carried away 35 fms wire with Sinker and Cup in first trial, in second sounded in 26 27 fms, lost sinker and Cup with 20 fms of Wire in reeling in. Expended 400 fms Wire, 2 Lighters Sounding Rod and Detacher, 26 fms Line and 2 Sinkers. Hoisted and inspected crew at Quarters at 9.25 A.M. Exercised, divisions as follows, Div. Rifle, 2d. Ord. Instruction, Eng. Div. Rifles, Powd. Div. Setting up Drill. Patent log, at end of watch read 25.

Hugh Rodman
Ensign U.S.N.

From Meridian to 4 P.M.

Cool and pleasant. Sounding over last hour clouds rising from N.W. Moderate to stiff breeze from S.W. hauling last hour to W.S.W. Sea smooth. Barometer 30.32 - 30.29. At 1.30 went ahead, on engines and set Square Sail, on the Fore, steering N.E. by N. for Standard Compass at 1.55 p.m., having run 10 miles since last sounding, stopped engines and furled sail. At 2 began cast No. 11, in 2639 fms, bottom, gray mud and fine sand. At end of watch reeling in wire. Board of Officers for examination of Apprentices in session. Expended one Sinker.

H. Helgering.
Lieut U.S.N.

From 4 to 6 P.M.

Clearing weather. Stiff breeze from S.W. by W. At 4.10 cut, came up Log, ahead full speed on course S.S.W. At 5.00 changed course to S. by W. ½ W. Set T. and A. Sail except Flying Jib but took it in again at 5.45.

P.F. Walling
Lieut U.S.N.

From 6 to 8 P.M.

Weather cloudy. Moderate breeze from S.W. by W. Steaming. Course S. by W. ½ W. at 7.10 Stopped and commenced sounding.

C.A. Teghtmeyer
Ensign U.S.N.

From 8 P.M. to Midnight.

Fair and pleasant. Light sprinkle of rain at 8.50. Moderate to stiff breeze from S.W. and S.W. by W. Sounding until 9.17 Cast No. 12 2698 fms. gray mud and fine sand. Expended 1 Sinker. At 995 stood course S. by W.

Examined and found to be correct.

E.P. Calloway
Lieut U.S.N.

Horns Declination N 18° 4' E. New Moon

A.R. Wadhams
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex" , 3d Rate,

At Sea making passage to Gibraltar, Spain.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	4	0	73.9	S. by W.	W. by W.	4	0		30.31	73	72	68	70	b.c.m.w.	cir. & cir-s.	4	S.
2	Sounding			"	"	4	0		30.31	73	72	70	70	"	"	4	"
3		8		"	"	4	0		30.31	73	72	70	70	"	"	4	"
4	3	9	78.6	E. N. E. 1/4. E.	"	4	0		30.31	73	72	70	70	"	cum	4	"
5	4	4	81.0	"	"	3			30.30	74	72	70	70	b.c.	"	6	S.
6	4	6	86.6	"	"	4			30.31	74	72	70	70	"	"	4	"
7	4	6	91.9	"	"	4			30.30	73	72	70	70	"	"	4	"
8	5	0	96.9	"	"	4			30.30	75	73	71	70	"	"	8	"
9	4 0	6 2	100.5	N. E.	"	4			30.32	75	74	72	72	"	"	4	N.
10	2		103.0	Sounding	"	4			30.30	75	74	72	72	"	"	4	
11			103.5		"	4			30.29	75	73	72	72	"	"	4	"
Noon.	4	0	110.5	E. by S.	"	4			30.37	75	73	72	72	"	cir-s.	8	"

Course and distance made good since preceding noon by observations, E. by S. 48 knots. tenths.

Dy. 802

Position at Noon:
- Latitude by D. R. — N. 40 ° 31 ' "
- Longitude by D. R. — W. 35 ° 38 ' "
- Latitude by observations of ⊙ — N. 40 ° 23 ' "
- Longitude by chronometer from Forenoon Observations of ⊙ — W 35 ° 39 ' "

Position at 8 a. m.
- Latitude by D. R. — N. 40 ° 17 ' "
- Longitude by Chron. Do Do Do — W. 35 ° 39 ' "

Position at 8 P. M.
- Latitude by D. R. — N. 40 ° 36 ' "
- Longitude by Chron. P. M. Do Do — W. 34 ° 32 ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 8. a. m. " W 26 ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water ——————— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1650 "

Coal consumed during the preceding 24 hours, 5 tons 20 lbs.

Coal remaining on hand at Noon, 84 " 961 "

P. M.											
1	2 4	4 2	114.5	E. by S. E. 1/2 E.	S. W. by W.	4	30.34	76	73	72	71	b.c.	cir-s.	8	S.
2	6	4	25.0	"	"	4	30.38	76	73	72	71	"	"	4	"
3	6	4	31.	"	"	4	30.38	76	73	72	71	"	"	4	"
4	6	4	37.2	"	"	4	30.39	74	73	72	71	"	"	6	"
5	6	0	43.3	"	S. by W.	5 2	30.39	73	72	71	71	b.c.m.	"	6	"
6	5	5	49.2	"	"	4 2	30.38	73	72	71	71	"	"	3	"
7	3	9	54.9	E. by E.	"	3-4	30.38	74	72	71	71	"	"	2	"
8	6	0	60.5	"	"	4	30.40	74	72	71	71	"	"	1	"
9	5	0	66.1	"	"	4	30.39	76	72	71	71	"	cum & nimb	1	"
10	5	2	70.8	"	"	4	30.40	76	72	71	71	"	"	4	"
11	5	2	76.5	"	"	4	30.40	76	72	71	71	"	"	6	"
Mid.	5	8	82.3	"	"	4	30.40	73	72	71	71	"	"	3	"

Dy 803
N 40.24
W 35°

under the command of Commander T. F. Jewell, U. S. Navy,

Wednesday September 22d, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences M. Watch at A. M.

Clear overhead, hazy about horizon. Dew falling. Moonlight. Moderate breeze from W. S.W. at 12.12 took in Flg and apt sails. At 12.42 pist ship before wind, stopped engines and made cast No 13 in 26 4/9 fms, bottom of grey mud and fine sand. Expended the sinker. Finished cast at 3.15. Set course E.N.E. ½ E, ran down clear and stopped engines at 3.40. Banked fires. Made square sail to T. Gaff Sails, stay Mainsail. Patent Log at end of watch 46.8.

H. C. Fearing.
Lieut U. S. N.

From 4 to 8 A.M.

Fine pleasant morning. Moonlight first hour. Gentle to moderate breeze from W. S.W. Set Royals at 4.40. Ship on course E.N.E. ½ E. under all drawing sail. Long swell from N.W. by W. Barometer steady.

R. T. Walling
Lieut U. S. N.

From 8 A.M. to Meridian.

Generally clear, bright pleasant, with cir. cumu, str and cir str clouds. Moderate breeze from W. S.W. Moderate sea, with long Wly swell. At 8 changed course to N.E. Patent log 100.3. At 9.15 spread fires and coupled propeller. At 9.25 shortened and furled sails except Foresail and Jib. Board for examination of apprentices met at 9 o'clock. At 9.40 took in and furled Foresail and Jib. At 9.56 commenced sounding. Finished sounding at 10.56, got bottom in 2486 fms, character Grey mud and fine sand. At 11.0 made square sail to Royals except Mainsail, and Jib, and went ahead on course E.S.E. (p.c.). At 9.30 went to Quarters for inspection, after which, drilled as follows 1st and Nav Divs. Small arms, 2d Div. Gunnery instruction, Second Div. School of Soldier. At 11.43 set Flying Jib F. T. Staysail, Main Trysail and Mizzen T. Staysail. Set fore Royal and Light Stays, Jib and flying Jib stays. At end of watch on course E.S.E. under plain sail to Royals except Mainsail and Spanker, also F. T. Staysail, M. Trysail and Mizzen T. Staysail. At 11.45 stopped engines and uncoupled propeller.

H. Townsend
Ensign U. S. N.

From Meridian to 4 P.M.

Clear. Moderate breeze from S.W. by W. At 12.20 changed course to E.S.E. ½ E. by order of Comdg Officer. The Board for examination of apprentices held a session. Started distilling at 12.15.

Hugh Rodman
Ensign U. S. N.

From 4 to 6 P.M.

Weather fair with haze around horizon. A smoky S.S.W. wind of moderate force. A smooth sea and steady barometer. A heavy bank of cloud to mist on the N.W. quarter of the horizon.

H. C. Fearing
Lieut U. S. N.

From 6 to 8 P.M.

Clear first hour cloudy second hour. Gentle to moderate breeze from W. S.W. At 7 changed course to E.S.E. Smooth sea. Barometer steady. Ship on course under plain sail to Royals and Mizzen T. Staysail and M. Trysail except Mainsail.

R. T. Walling
Lieut U. S. N.

From 8 P.M. to Midnight.

Partly clear, hazy around horizon. Bright starlight first part. Few small clouds. Moderate breeze from S.W. Smooth sea. Barometer steady. At end of watch on course E.S.E. under plain sail.

Examined and found to be correct
A. F. Bergen
Ensign U. S. N.

Noons Declination N 18° 16' New Moon. A. V. Wadhams Lieut
Navigator.

LOG of the UNITED STATES Steamer "Essex", 30 " Rate,

at Sea making passage to Gibraltar, Spain.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	5	5	84.8	E. by E.	S.W.	4			30.38	74	72	71		b.c.y.	cum	2	S.
2	5	0	93.4	"	"	4			30.40	72	72	71		"	"	2	"
3	5	0	99.0	"	"	3			30.40	74	72	71		"	"	2	"
4	5	0	103.4	"	"	3			30.40	73	72	71		"	"	4	"
5	5	0	104.5	"	W. by W.	3	0		30.34	73	72	71		o.c.h.y.	nimb	0	"
6	Sounding			"	West	3	0		30.36	74	71	70		"	"	0	"
7		5	1			3	0		30.35	74	74	70		"	"	0	"
8		5	1		W. by S.	3	0		30.36	74	74	70		"	"	0	"
9	3	0	17.8	E. by E.	"	3			30.36	74	74	71		o.c.h.	"	0	"
10	5	2	18.9	"	W. by W.	2			30.36	74	72	71		b.c.	"	1	"
11	5	0	24.5	E. by E.	E. by E.	2			30.38	75	73	72		b.c.	"	1	"
Noon.	5	6		"	"	2			30.40	76	74	73		"	cir cum nimb	2	"

Course and distance made good since preceding noon by observations, E. by N. 109 knots tenths.

Position at Noon:
- Latitude by D. R. — N. 40 ° 39' "
- Longitude by D. R. — W. 33 ° 20' "
- Latitude by observations of ⊙ — N. 40 ° 33' "
- Longitude by chronometer from Forenoon Observations of ⊙ — W. 33 ° 18' "

Rq. 803

Position at 8 a. m.:
- Latitude by D. R. — N. 40 ° 39' "
- Longitude by Chro Do Do Do — W. 33 ° 33' "

Position at 8 P. M.:
- Latitude by D. R. — N. 40 ° 31' "
- Longitude by Chro P. M. Do Do — W. 32 ° 15' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head . ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 4 10 " W 36 ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water Distilled during the preceding 24 hours, 1.000 "

Water remaining on hand fit for use at Noon, 2000 "

Coal consumed during the preceding 24 hours, 3 tons 1240 lbs.

Coal remaining on hand at Noon, 88 " 1831 "

P. M.															
1	5	9	0	31.2	S.E. by E. 1/4 E. S.E. by E. 1/2 E.	S.W. by W.	1		30.40	76	76	73	71	b.c.	cir cum str	3	S.
2	6	9	3	31.5	"	"	1		30.40	76	75	73	71	"	cum cir nimb	3	"
3	6	3	43.8	"	"	"	1		30.40	76	75	73	71	"	cir cum	4	"
4	5	9	49.5	"	"	"	1		30.39	75	73	72	71	"	"	6	"
5	5	4	54.5	"	West	1-2			30.40	76	73	72	71	"	str	6	"
6	4	0	59.9	"	"	2			30.40	76	73	72	71	"	"	4	"
7	5	5	65.8	"	"	2	0		30.40	76	74	73	71	b.cm.	"	6	"
8	6	6	71.6	"	"	2	0		30.40	76	74	73	71	o.cm.	"	0	"
9	5	2	78.2	"	"	1-2			30.38	74	74	73	72	b.c.m.w.	cum	1	"
10	6	4	85.1	"	"	1-2			30.40	75	73	72	70	"	"	3	"
11	6	6	91.9	"	"	2-3			30.39	74	73	72	70	o.c.m.w.	"	0	"
Mid.	6	2	97.0	"	"	2-3			30.40	74	73	72	70	"	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,
Thursday September 23d, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Turtle Harbor

Overcast and damp. Gentle to moderate breeze from N.E. Light sprinkle of rain at 2h 0m. At 3h 0m spread fires and coupled decks. At 3h 20m took in and furled all sail preparatory to sounding. Sea smooth.

E. D. Galloway
Lieut U. S. N.

From 4 to 8 A.M.

Weather overcast, frequent passing showers, rain squalls all around horizon. Gentle breeze from W.S.W. to West. Barometer falling slowly. Sea smooth. At 4h 0m patent log reading 5.6, put ship before wind & again cast No 15. Wire broke in paying out loosing 1000 fms Wire and Cut & lengthening one sinker. Started cast again and when 1000 fms were out found wire in reel broken in several places. Replaced wire and began reeling out again at 4h 30m. At 8h paying out again.

D. Wiseman
Lieut U. S. N.

From 8 A.M. to Meridian.

Overcast. Clearing last part of watch. Passing showers of rain first hour. At 8h 35m finished reeling in wire. Got a cast in 2036 fms, bottom, gooey mud, fine sand. Expended one sinker. At 8h called all hands, made sail, made sail to Royals. At 8h 50m shortened and furled sail all but Fore and Aft Sail. At 8h 30m went ahead with engines. Steering course E.S.E. At 10h 50m changed course to S.E. by E. 3/4 E. Sea smooth. Ship steadily. Patent log registered 24.5 at end of watch. Rev 32.5 Revs 44.

F. Goodyear
Ensign U. S. N.

From Meridian to 4 P.M.

Partly clear, bright, warm. Cir. cumu. cumu. str. and nimb. clouds. Light airs from S.W. by W. Smooth Sea. At 12h 0m changed course to S.E. by E. 1/2 E. Patent log 25.8 At 12h 35m hauled up Foresail. Board for examination of Apprentices met at 1 O'clock. Overhauling sounding wire and reserving splices. At end of watch in course S.E. by E. 1/2 E. Under steam and Fore and Aft sail with No 1 Fisherman Staysail.

N. C. Roundstone
Ensign U. S. N.

From 4 to 6 P.M.

Fair and pleasant. Light to gentle breeze from West. At 5h 0m made sail with Mainsail. Took in Spanker and Staysail. Placed J. Wilde (Capt) in double irons for two days for fighting by order of Comdg Officer.

E. D. Galloway
Lieut U. S. N.

From 6 to 8 P.M.

Misty and clouded over last hour. Light breeze from West. Under steam and square sail. Course S.E. by E. 1/2 E.

H. Helfrich
Lieut U. S. N.

From 8 P.M. to Midnight.

Cloudy and pleasant, misty. Light airs to gentle breeze from W. Under steam and plain sail to Royals except Mainsail and Spanker. On course S.E. by E. 1/2 E. Smooth sea with occasional long swell from W.S.W. Steam 58. Rev 32. Revs 44.

Examined and found to be correct.

D. J. Walling
Lieut U. S. N.

Moons Declination N 16° 41' New Moon.

A. V. Wadhams
Lieut and Navigator.

LOG of the UNITED STATES — Steamer "Essex" — 3d Rate,

at Sea making passage to Gibraltar, Spain.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	6	2	104.5	S.E by S. ½ E.	West	3			30.36	74	71	71	70	b.c.	cum nimb	4	S
2	6	4	111.6	"	W.S.W.	3-4			30.35	74	71	71	70	b.c.	nimb	2	"
3	6	6	118.6	"	"	3-4			30.35	74	71	70	70	b.c.	cu nb	6	"
4	6	6	125.1	"	"	3+			30.34	74	71	70	70	"	cum nimb	5	"
5	5	4	134.1	"	"	3			30.35	74	71	70	70	"	"	4	"
6			Sounding		W. by S.	3			30.35	74	71	70	70	"	"	4	"
7	3	0	140.0	S.E. ½ E.	"	3			30.33	74	74	71	70	"	"	2	"
8	5	0	145.4	"	"	4			30.32	74	74	71	70	"	"	5	"
9	5	0	150.5	"	S.W. by W.	4	0		30.30	74	73	71	70	"	cir cum	3	"
10	5	6	156.1	"	"	4	0		30.30	74	73	72	70	"	"	3	"
11	4	6	161.4	"	"	4	0		30.30	74	73	73	70	"	"	3	"
Noon.	5	6	166.5	"	"	4	0		30.30	74	73	71	69	"	"	2	"

Course and distance made good since preceding noon by observations, East 141 knots. tenths.

Position at Noon:
- Latitude by D. R. — N. 40 ° 35' "
- Longitude by D. R. — W. 30 ° 15' "
- Latitude by observations of ⊙ — N. 40 ° 32 "
- Longitude by chronometer from Forenoon Observations of ⊙ — W. 30 ° 14' "

Ag. 803

Position at 8 a. m.:
- Latitude by D. R. — N. 40 ° 25' "
- Longitude by Chro Do Do Do — W. 30 ° 38' "

Position at 8 P. M.:
- Latitude by ~~Chro~~ D. R. — N. 40 ° 20' "
- Longitude by Chro P. M. Do Do — W. 30 ° 00' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by ~~Amplitude~~ azimuth ⊙ observed at ~~Sunrise,~~ 8 24 ship's head E ½ S. — W. 27 ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " — ° ' "

Variation of the Compass by Azimuth ⊙ observed at " — ° ' "

Variation of the Compass by Azimuth ⊙ observed at " — ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1650 "

Coal consumed during the preceding 24 hours, 5 tons 910 lbs.

Coal remaining on hand at Noon, 78 " 1021 "

P. M.												
1	6	6	41.4	N.E. ½ E. by E. ½ E.	W. by W.	4		30.28	45	43	41	69	b.c.	cir cum	2	
2	5	8	44.0	"	"	4		30.28	45	43	41	69	"	"	1	"
3		9	81.5	Sounding	"	4		30.28	45	43	41	69	"	"	3	"
4	1	4	83.1	S. by W.	"	4		30.28	44	42	40	69	"	"	4	"
5	5	6	89.6	"	W by N	4		30.28	43	41	40	69	"	"	6	"
6	6	0	96.6	"	"	4		30.29	43	41	40	69	b.c.	cumb nimb	0	"
7	3	5	99.9	S.W. by W.	"	4	5	30.30	42	41	40	69	b.c.g.	"	2	"
8	2	9	102.1	"	"	4	1	30.30	43	41	40	69	"	"	2	"
Dy 804 N 40.20 W 30			102.8													
9	6	0	109.2	"	E. N. E.	4	0	30.30	42	40	69	70	b.d.	"	6	"
10	6	0	115.5	"	"	2	0	30.30	42	69	68	70	b.d.m.	mist	0	"
11	6	6	121.1	E. by S.	"	2	0	30.28	42	69	68	70	"	"	0	"
Mid.	2	3	123.4	"	"	2	0	30.28	41	69	68	70	"	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,

Friday September 24th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Cutter A. M.

Partly clear, pairy 2d hour. Clouds cumu cumu str and cumb moving from 2d. Gentle to moderate breez from W.st to W.b W. at 12 50 hauled down and showed Fore T.Gaysail. At 1 30 noticed a brilliant green aurora to N.d at 2 20 moon rose over cloud bank. At end of watch under steam & square sail except Mainsail, Jib and F.k. Am Course S.E. by E 1/2 E. Sea smooth. Barometer steady.

A. Dechman
Ensign U.S.N.

From 4 to 8 A.M.

Overcast first part, cloudy latter part. Light to moderate breez from W. by S. Smooth sea. At 4.35 took in and furled sail & square sail except Foresail At 5 25 hauled down head sails and clewed Foresail close up. At 5 31 started engines. Ship lying aback to wind, began sounding, patent log registered 35.4. Got cast No 6, 1135 fms grey mud & fine shell. At 6 00 started ahead on course S.E. 1/4 S. Made all steam sail except F.k T.G.Gaysail, Mainsail and Spanker. At 6 45 changed course to E. by S. Sounded fms and uncoupled propeller.

C.D. Galloway
Lieut U.S.N.

From 8 A.M. to Meridian

Pleasant weather. Moderate breez from S.W. by W. Barometer steady. Sea smooth. At 9 30 General Quarters, divisions reported ready as follows: 1st 9m 50s, 2d 6m 26s, 3d 4m 00s, Non 2m 50s Prod. 4m 40s. Engrs 2m 00s, Marines 2m 55s. A board of Officers for the gratuity examination of Apprentices in session, adjourning, at 11 30 to meet at 1 PM. At 11 30 Started in distiller. Steering E. by S. No changes in sails carried.

H.B. Gearing
Lieut U.S.N.

From Meridian to 4 P.M.

Fair. Moderate breez from W.S.W. Barometer steady. Moderate sea. Ship rolling easily. At 2 40 called all hands and furled sail preparatory to sounding. Got a cast in 1403 fms of water, bottom, grey mud fine sand, black specks. At 3 20 went ahead on engines. At 3.45 changed course to S.S.W. and set Fore and aft Sails. Crew engaged at scraping and slushing spars. Patent log registered 83.1, at end of watch. Steady at 8 Rev 35.

F. Toombs
Ensign U.S.N.

From 4 to 6 P.M.

Partly clear first hour with cir cumu clouds, generally overcast last hour. Clouds cumu and nimb. Light flying scud, low, from N.E. Moderate breez from W.S.W. Moderate sea and swell from N.E. at end of watch Ste course S.S.W, under steam and sails and M. Topsail

A.F. Dechman
Ensign U.S.N.

From 6 to 8 P.M.

Cloudy and damp. Moderate to stiff breez from W. by N. Heavy bank of clouds along horizon to N.E. Sea smooth. At 6 10 hauled down F. and A. Sails except Spanker. Brought ship head to wind and got cast No 18, 1159 fms bottom rock. At 6 37 started on course S.W. by S. Stood on course 6 miles and at 7 20 took in F. and A. Sails except Spanker, brought ship head to wind. Got cast 19.8 1/6 fms, gravel and fine sand. At 7 53 stood on course S. by E. Patent log at 8 read 2. Steady.

C.D. Galloway
Lieut U.S.N.

From 8 P.M. to Midnight

Overcast cloudy and misty with frequent light drizzle. Wind light from S.E. to E. At 9 45 took in F. and A. Sail. At 10 15 took cast No 20 96 fms, bottom ooze. Extended one reef. At 10 51 went ahead on course E. 1/4 S. Patent log at 12 00 read 119.7.

Examined and found to be correct

H.B. Gearing
Lieut U.S.N.

Mean Declination N 13° 59' New Moon.

A.V. Wadhams Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex" 3d Rate,

At Sea making passage to Gibraltar, Spain.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	2	4	20.6	E.¼S.	East	2			30.30	71	68	68	70	b.cd.	nmk	0	S.
2	2	5	21.8	"	"	2			30.32	71	69	68	70	b.nw.	"	0	"
3	2	0	22.9	"	"	2			30.30	70	68	68	70	b.c.d.	"	0	"
4	2	6	24.5	"	"	2			30.31	70	68	67	70	b.cu.	cirr	2	"
5	2	2	26.0	"	E.by.S.	2			30.32	71	68	67	70	b.c.d.	cirr nmk	6	"
6	2	4	28.5	"	S.E.by.E.	2			30.31	71	69	68	70	b.c.	"	3	"
7	3	0	30.4	"	"	2			30.33	71	69	68	70	b.c.d.	"	0	"
8	4	2	35.4	"	"	2			30.34	71	69	68	70	"	"	0	"
9	4	4	40.0	"	"	2	0		30.35	71	69	68	70	o.c.d.	"	0	"
10	2	5	42.6	"	"	2	0		30.35	71	70	69	70	"	"	0	"
11	4	4	47.9	"	E.by.S.	2	0		30.36	72	71	70	70	"	"	0	"
Noon.	4	0	52.2	"	"	2	0		30.35	72	71	70	70	b.c.	nmk	2	"

Course and distance made good since preceding noon by observations, by patent log 95.7 knots. tenths.

Position at Noon:
- Latitude by D. R. — N. 40 ° 18 ' "
- Longitude by D. R. — W. 29 ° 16 ' "
- Latitude by observations of ⊙ — N. 40 ° 15 ' "
- Longitude by chronometer from Forenoon Observations of ⊙ — W. 29 ° 12 ' "

Lg. 804

Position at 8 a. m.
- Latitude by D. R. — N. 40 ° 10 ' "
- Longitude by Chro. Do Do Do — W. 29 ° 36 ' "

Position at 8 P. M.
- Latitude by D. R. — N. 40 ° 25 ' "
- Longitude by Chro. P.M. Do Do — W 28 ° 24 ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 4 P.M. E.S.E. " W 25 ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water ——— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1301 "

Coal consumed during the preceding 24 hours, 5 tons 1850 lbs.

Coal remaining on hand at Noon, 72 " 1411 "

P. M.											
1	0	5	54.5	E.¼S. N.by.E.½E. S.E.½E.	E.S.E.	2	0	30.33	72	69	71	b.c.	nme	10	S.
2	5	6	63.4	"	"	2	0	30.33	70	72	70	71	b.c.	cir	6	"
3	0	8	64.2	"	Variable	1	0	30.33	70	72	69	71	"	"	4	"
4	0	8	71.3	E.S.E.	South	1-2	0	30.33	69	72	71	71	"	"	4	"
5	4	6	75.5	"	S.W.	2		30.31	73	71	69	70	"	cirr	6	"
6	4	2	81.2	"	"	2		30.30	72	70	69	70	"	"	4	"
7	4	6	86.4	"	S.S.W.	2		30.32	72	70	69	69	"	"	8	"
8	5	0	92.0	"	"	2		30.31	72	70	69	69	"	"	8	"
9	4	8	98.5	"	"	2	2	30.32	72	70	69	69	"	cirr nmk	5	"
10	4	0	102.5	"	S.W.	2	2	30.32	72	69	68	69	o.c.	"	0	"
11	2	0	104.5	E.S.E.½E.		2-3	2	30.33	72	69	68	69	b.cu.	"	1	"
Mid.	4	5	110.5	"	West	2-3	2	30.33	72	69	68	69	b.cu.d.	"	2	"

under the command of Commander J. F. Merry, U. S. Navy,
Saturday September 25th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M.

Overcast with occasional drizzling rain. Steering a course E. 1/4 S. Under steam alone, engines turning over slowly. Sea smooth with long ripple from S. and W. Steam 50. Revolutions 176.

D. F. Wareing
Lieut U. S. N.

From 4 to 8 A. M.

Partly clear first part, light drizzle first hour. Overcast cloudy and drizzling latter part. Cumulus and nimbus clouds. Light breeze from E. by S. first hour, shifting to S. E. by E. Smooth Sea. Ship rolling easily. Attend of water in course E. 1/4 S. Under steam alone, turning over slowly.

D. F. Devereux
Ensign U. S. N.

From 8 A. M. to Meridian.

Overcast with drizzling rain for the first three hours then partially clear. Light breeze from E. S. E. and S. E. by E. At 9 stopped engines and sounded in 60 fms, bottom, sand and shells. At 9 25 started ahead in course. Expended one Cinder.

Thos. Rodgers
Ensign U. S. N.

From Meridian to 4 P. M.

Pleasant weather. Fog bank in Southern horizon. Light breeze from E. S. E. first two hours. Bright light abt 3 hours and last hour light breeze springing up from South. Barometer steady. Sea smooth. At 2 40 stopped engines and got a sounding in 10 1/2 fms, bottom of grey with black specks. Expended one Cinder. Under steam alone until 3.53 when set Fore and Aft Sail. Course steered as follows. E. 1/4 S. till 12.15, then E. by S. 1/4 S. till 12.25, E. N. E. 1/2 E. till sounding at 2. 40 and when went ahead again on engines at 3 10, E. S. E. Patent log at 4 P. M. read 41.3.

H. L. Gearing
Lieut U. S. N.

From 4 to 6 P. M.

Clear and pleasant. Light breeze from S. W. At 4.50 called all hands make sail and made all plain sail to Royals save Mainsail. Smooth Sea. Barometer steady. Steam 55. Revolutions 258.

D. F. Wareing
Lieut U. S. N.

From 6 to 8 P. M.

Generally clear bright starlight pleasant. Few cumulus clouds. Light breeze from S. S. W. Smooth Sea. At end of watch, on course E. S. E. Under steam and plain sail to Royals and Main Topsail and F. F. Staysail save Mainsail.

D. F. Devereux
Ensign U. S. N.

From 8 P. M. to Midnight

Cloudy and pleasant with gentle breeze from S. W. until last hour then passing showers, wind shifting to West and increasing. Sea smooth. At 9 15 stopped engines, uncoupled screw, banked fires in port and hauled fires in starboard boilers. At 9 45 started distilling. At 10 30 changed course to E. S. E. 1/2 E.

Ed. Galloway
Lieut U. S. N.

Examined and found to be correct.

Moons Declination N 10° 36' Near Moon.

A. T. Wadhams.
Lieut U. S. N. Navigator.

LOG of the UNITED STATES Steamer "Essex" 3d Rate,

at Sea making passage to Gibraltar, Spain.

Hour.	Knots.	Tenths.	Reading of Pateat Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	4	8	15.6	E. by E. ½ E.	W. by W.	3	1		30.32	4	66	66	69	b.m.	Cb	5	S.
2	5	2	21.0	"	"	3	1		30.32	4	68	64	69	o.m.	mink	0	"
3	4	6	25.6	"	"	3	1		30.31	4	68	64	69	b.m.	cir. Str	5	"
4	4	5	30.0	"	"	3	1		30.31	4	69	68	69		"	2	"
5	5	2	34.3	"	"	3			30.30	4	69	68	69	b.c.	cum	1	"
6	5	2	39.5	"	by W.	3			30.30	4	69	68	69		"	1	"
7	5	2	44.2	"	"	3			30.30	4	70	69	69	"	cir Str	3	"
8	3	8	48.0	"	"	3			30.30	4	24	06	96	9	"	"	4	"
9	5	4	53.2	E. by E. ½ E.	W. by S.	3-4	5		30.30	4	24	06	96	8	"	"	3	"
10	4	4	61.0	"	"	4	5		30.32	4	24	06	96	8	"	"	4	"
11	4	2	69.3	"	"	4	5		30.32	4	24	06	96	9	"	"	4	"
Noon.	6	0	45.6	"	"	4			30.32	4	24	06	96	9	"	"	5	"

Course and distance made good since preceding noon by observations, E. 3/4 N. 116 knots. tenths.

Position at Noon: Latitude by D. R. N. 40 .2. " ; Longitude by D. R. W. 26 .3. " ; Latitude by observations of ⊙ N. 40 .3. " ; Longitude by chronometer from Forenoon Observations of ⊙ W. 26 .4. "

24.80 N

Position at 8 a. m. Latitude by D.R. N. 40 .3. " ; Longitude by Chro Do Do Do W. 24 .1. "

Position at 8 P. M. Latitude by D.R. N. 40 .3. " ; Longitude by Chro P.M. Do Do W. 25 .3. "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 8 A.M. " E. by E. ½ E. W 22 ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water Distilled during the preceding 24 hours, 250 "

Water remaining on hand fit for use at Noon, 1200 "

Coal consumed during the preceding 24 hours, 4 tons 680 lbs.

Coal remaining on hand at Noon, 68 " 431 "

P. M.																	
1	4	0	82.3	S. E. by E. ½ E.	S. W. by S.	4			30.35	4	24	06	96	9		8	S.
2	6	0	88.5	"	"	3			30.35	4	24	06	96	9	"	8	"
3	6	0	94.0	"	"	3			30.35	4	24	06	96	9	"	5	"
4	6	0	99.5	"	"	3			30.34	4	24	06	96	9	cir	4	"
5	5	8	105.3	S. E. by E. ¼ E.	"	3	¼	¼	30.32	4	06	96	89	"	"	5	"
6	6	0	11.3	S. E. by E. ½ E.	"	3	5	¼	30.32	4	06	86	89	"	"	6	"
7	6	0	17.5	"	"	3	3	¼	30.33	4	06	86	89	"	"	7	"
8	6	4	23.5	"	"	3	3	¼	30.33	4	06	86	88	"	"	7	"
9	6	4	29.9	"	"	3	3		30.38	4	06	86	88	"	cir	9	"
10	6	8	36.6	S. E. by E. ¼ E.	S. W.	4	4		30.36	4	06	86	88	"	"	9	"
11	6	8	43.2	"	"	4	4		30.36	4	06	86	84	"	"	9	"
Mid.	6	8	49.8	"	"	4	4		30.37	4	06	86	84	"	"	9	"

24.80 N 40°-22 W 25°

under the command of Commander T. F. Jewell, U. S. Navy,
Sunday September 26th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Unfit 4 A.M.

Cloudy, misty, hazy with occasional glimpses of blue sky overhead. Gentle breeze from W.S.W. Barometer steady. Sea smooth. At 3.00 started fires under boilers No. 5 and 7. No change in sail, carried. At 4 patent log read 60 knots.

N. Helgesen.
Lieut. U.S.N.

From 4 to 8 A.M.

Clear weather. Gentle breeze from W.S.W. and S.W. Smooth sea. At 6.50 coupled propeller and tried engines. At 7.00 engines reported ready. Started ahead under steam and took in all sail except Main Topsail and Spanker. At 7.45 patent log read 48.0, hauled it in and brought ship by the wind. Took cast of deep sea lead in 120 fms, bottom, ooze and fine sand. Expended, no sinker. Steam as per Revolutions 39.7.

D.F. Walling
Lieut. U.S.N.

From 8 A.M. to Meridian

Generally clear, bright and pleasant. Few stratus clouds. Moderate breeze from S.W. by S. Smooth sea. Sounding line 8 fms, when weighed ahead on course S.E. by E.½ E. Made steam sail to Royals, except Mainsail, also Fore and Aft Topmast Staysail and Main Topsail. Stopped engines and uncoupled propeller at 8.30. Banked fires in boilers 2 and 4 and hauled fires of 5 and 7. At 9.45, went to Quarters, Emdg Officer inspected ship and crew. At 10.00 started distiller. At 10.20 held Divine Service. At end of watch, on course S.E. by E.½ E. Made steam sail to Royals, except Mainsail, also Fore and Aft Jigger Topmast Staysail and Main Topsail. Took extra lashings off 8" rifle.

C.A.F. Deaderick
Ensign U.S.N.

From Meridian to 4 P.M.

Clear. Moderate breeze from S.W. by W. Distilling. Patent log at end of watch 99.5.

Hugh Rodgers
Ensign U.S.N.

From 4 to 6 P.M.

Pleasant weather. Gentle breeze from S.W. by S. Barometer steady. Sea smooth. A clear sunset. Course S.E. by E.½ E. Patent log at 6 21.3. Distilling.

N. Helgesen.
Lieut. U.S.N.

From 6 to 8 P.M.

Clear and pleasant. Gentle breeze from S.W. by S. Steering a course S.E. by E.½ E. Barometer rising. Distilling.

D.F. Walling
Lieut. U.S.N.

From 8 P.M. to Midnight.

Generally clear with stratus clouds around horizon. Gentle breeze from S.W. by S. First half. Moderate S.W. breeze afterwards. Smooth sea. At 9 o'clock hauled course to S.E. by E.½ E. Patent log 99.9. At end of watch on course S.E. by E.½ E. under steam sail to Royals, except Mainsail, also Fore and Aft Staysails and Main Topsail. Distilling.

C.A.F. Deaderick
Ensign U.S.N.

Examined and found to be correct.

Noon's Declination N 5° 59' New Moon

A.V. Wadhams
Lieut. and Navigator.

LOG of the UNITED STATES — Steamer "Essex", 3d Rate,

At Sea making passage to Gibraltar, Spain.

Hour	Knots	Tenths	Reading of Patent Log	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	6	6	56.2	SE by E 1/4 E	SW	4	4		30.37	70	69	68	67	Lead	cir cum	4	SI
2	6	6	62.8	"	"	4	4		30.36	70	69	68	67	"	"	4	"
3	4	5	69.8	"	"	3.5	4		30.36	69	68	68	67	"	"	5	"
4	4	8	76.5	"	SW by S	4.5	4		30.36	69	68	68	67	"	"	3	"
5	6	4	82.8	"	SW	3	4		30.36	69	68	67	67	Cld	"	0	"
6	6	0	88.6	"	SW by W	3	4		30.36	69	68	67	67	"	"	0	SI
7	5	2	94.2	"	W SW	3	3		30.36	70	68	67	67	Lc	"	1	"
8	5	6	99.6	"	"	3	3		30.37	70	68	67	67	"	"	1	"
9	3	2	62	SE 1/2 E	"	3			30.39	71	68	67	68	"	cir	1	SI
10	4	2	13	"	"	3			30.39	71	69	69	68	"	"	2	"
11	1	6	12.2	"	"	2			30.40	72	71	69	69	"	"	2	"
Noon.	2	6	13.9	"	"	2			30.40	72	71	69	69	"	"	3	"

Course and distance made good since preceding noon by observations, E 1/2 S 145 knots tenths.

Eq. 8 05

Position at Noon:
- Latitude by D. R. — N. 40 ° 30 ' "
- Longitude by D. R. — W. 23 ° 40 ' "
- Latitude by observations of ⊙ — N. 40 ° 19 ' "
- Longitude by chronometer from Forenoon Observations of ⊙ — W. 23 ° 34 ' "

Position at 8 a. m.
- Latitude by D. R. — N. 40 ° 33 ' "
- Longitude by Chro do do do — W. 23 ° 54 ' "

Position at 8 P. M.
- Latitude by D. R. — N. 40 ° 15 ' "
- Longitude by Chro P.M. do do — W. 22 ° 46 ' "

Current during the time, knots 2 tenths per hour, setting to the East

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head — ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " — ° ' "

Variation of the Compass by Azimuth ⊙ observed at 4 03 " S 83 3/4 E W 21 ° 48 "

Variation of the Compass by Azimuth ⊙ observed at " — ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water Distilled during the preceding 24 hours, 1450 "

Water remaining on hand fit for use at Noon, 23000 "

Coal consumed during the preceding 24 hours, 2 tons 1310 lbs.

Coal remaining on hand at Noon, 65 " 1661 "

Hour	Knots	Tenths	Reading of Patent Log	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
P. M.																	
1	6	5	15.8	SE 1/2 3/4 E	W SW	2			30.42	71	69	69	69	Lc	cir cum	5	SI
2	4	4	21.4	"	"	2			30.44	73	72	70	69	"	"	5	"
3	5	5	27.0	"	"	2-3			30.45	73	71	69	69	"	cir str	6	"
4	5	4	32.9	"	SSW	2-3			30.46	72	70	69	69	"	"	8	"
5	5	0	38.4	"	"	2			30.45	72	70	69	69	"	"	8	"
6	5	0	43.4	SE by E 1/4 E	"	2			30.45	73	70	69	69	"	cir cum	4	"
7	6	0	49.4	"	SW by S	2	2		30.44	71	69	68	69	"	cir str	4	"
8	6	4	55.5	"	"	2	2		30.45	71	69	68	69	"	"	6	"
9	5	2	61.1	E by S	S by E	3			30.46	71	70	69	69	"	"	2	"
10	6	0	66.6	SE by E 1/4 E	"	2			30.44	71	69	68	69	"	"	1	"
11	6	0	72.6	"	"	2			30.44	71	69	68	69	"	"	1	"
Mid.	6	2	78.2	"	"	2			30.43	71	70	69	69	"	"	1	"

under the command of Commander T. F. Jewell, U. S. Navy,

Monday September 27th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Cutie H. A. M.

Clear with bank of clouds along horizon to S.W. first hour, then passing heavy Cumulus and strongly marked stratus clouds from same quarter. Overcast last hour. Gentle to moderate breeze from S.W., then S.W. by S. falling light, at intervals. Sea smooth. Heave deed.

Chas Galloway
Lieut U. S. N.

From 4 to 8 A. M.

Cloudy and dampish. Gentle breeze from S.W. to W.S.W. Barometer steady at 5 30 a long swell set in from N.W. at 7 30 started fires under boilers at 5 40 Steering course S.E. by E. 1/4 E. No change in sail, carried. Patent log at 8 00 read 99.6 knots.

H. Helgesing
Lieut U. S. N.

From 8 A. M. to Meridian

Cloudy. Gentle, decreasing to light breeze from W.S.W. Long swell from N.W. Barometer steady. At 9 30 mustered and inspected crew at Quarters. Exercised divisions as follows: 1st Div Great Guns, 2d Div Sm Arms Application of Tourniquet No 2 Small Arms Instruction Powder Div Infantry Manual Div Target Practice with Air Guns. At 8 40 Changed course to S.E. 1/2 E. Patent log registered 13.9 at end of watch.

T. J. Lowndes
Ensign U. S. N.

From Meridian to 4 P. M.

Partly clear with cir. cumulus and cir. str. clouds. Light to gentle breeze from W.S.W. Smooth sea with long N. Wly swell. At 12 30 changed course to S. 65 E. 1/4 E. Patent log 14.7. Board for examination of apprentices met at 1 O'clock. First division exercised at firing with Air Guns. Shortened breechings of No 2 Guns, one (1) foot. Fmdg Officer awarded Mr. Dunn for Cook, from the following punishment for scrubbing clothes out of hours, 2 nights P.S. from 10 to 12 O'clock. Stopped distilling & Spread fires & coupled engines at 2 50. Lit 2 00 Board for examination of apprentices adjourned sine die. At 3 O'clock engines reported ready at 3 05 colnt ahead (1) bell, 4 bells at 3 10. At end of watch under steam & plain sail to Royals except Mainsail, also Fore & Mizzen T. Gaffsails & Main Topsail, in company.

H. C. Lowndes
Ensign U. S. N.

From 4 to 6 P. M.

Clear & pleasant. Light breeze from S.S.W. Sea smooth with long swell from N.W. At 4 30 stopped engines called all hands, took in & furled square sails & began sounding at 4 40 Got cast No 24, 2 36 lbs guns, one & fine sand. Expended the sinker. At 5 40 Started ahead course S.E. by S. 1/4 E. at 5 48 made sail to Royals. Hauled in pat log at 24 30 reading 28.4 knots.

Chas Galloway
Lieut U. S. N.

From 6 to 8 P. M.

Pleasant weather. Light breeze from S.W. by S. Steady barometer. Smooth sea with long N.W. swell Steering course S.E. by E. 1/2 E. under sail & steam. No change in sail carried. Pat log at 8 00 44.5

H. Helgesing
Lieut U. S. N.

From 8 P. M. to Midnight

Cloudy but pleasant. Light breeze from S. by E. Long swell from W.S.W. At 8 30 took in & furled sail & put ship heading off, brought ship to course S.E. by E. 1/2 E. Under steam & F. & A. Sail. At 11.45 beat to Quarters. Divisions fired as follows 1st Div in 10 56 Ready for secnd fire in 12 00 50 Engrs Div ready in 2 50 Expended 2 1-6 lbs charge for 6 Pdr 3 10 1/2 lbs 2 00 on No 1 Gun 3 00 50 Hose Div 2 50 Examined and found to be correct. 3 " musket 2 00 on No 2 Gun 8 45 Engrs " 2 50 and bags. Mercurial Barometer broke 3 " on 8 10 Pistol " 8 08 by firing of guns.

Thos Walling
Lieut U. S. N.

Thos Williams.
Navigator.

Thos Williams Decliniation N 1 0 1st Near Morn.

LOG of the UNITED STATES — Steamer "Essex" — 3 d " Rate,

At Sea making passage to Gibraltar, Spain

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a.								
1	5	8	44.5	S.E.by.E.1/4.E.	S.by.E.	3	2		30.42	43	69	64	69	o.c.w.	cumb	0	S.
2	5	2	84.0	"	"	3	3		30.42	43	69	68	69	"	"	0	"
3	6	4	91.4	"	"	3	4		30.42	42	69	68	69	"	"	0	"
4	4	0	98.4	"	"	4	4		30.40	41	68	64	69	"	"	0	"
5	6	0	105.1	"	S.S.W.	4	3		30.42	41	68	64	69	o.c.d.	cirr	2	"
6	3	0	109.4	"	S.E.	3	0		30.41	40	68	66	69	"	"	2	"
7	6	0	115.2	"	S.S.W.	3			30.42	69	68	66	69	b.c.	cirr	2	"
8	6	4	121.8	E.S.E.3/4.E.	Squalls	4			30.41	69	68	66	69	"		4	"
9	6	4	127.5	E.3/4.S.	"	3	3		30.42	40	67	65	69	"	cirr-str	2	"
10	5	4	134.0	"	"	3-4	4		30.41	40	66	65	69	b.c.		4	2
11	6	4	140.4	E.by.S.	"	4	4		30.39	40	66	64	69	b.c.	"	2	2
Noon.	4	4	145.0	"	"	4	4		30.32	39	66	64	69	"	cir-str	6	"

Course and distance made good since preceding noon by observations, East 133 knots. tenths.

Dy. 805

Position at Noon:	Latitude by D. R.	N. 40	0 13. "
	Longitude by D. R.	W. 20	0 42. "
	Latitude by observations of ⊙	N. 40	0 21. "
	Longitude by chronometer from Forenoon Observations of ⊙	W. 20	0 41. "
Position at 8 a. m.	Latitude by D. R.	N. 40	0 15 "
	Longitude by Chron	W. 21	0 19. "
Position at 8 P. M.	Latitude by D. R.	N. 40	0 31. "
	Longitude by Chron	W. 19	0 53. "

Current during the time, knots 3 tenths per hour, setting to the South

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 8 A.M. " E.by.E.3/4.E. W 24 0 30. "

Water expended during the preceding 24 hours, 350 gallons.

Water Distilled during the preceding 24 hours, 350 "

Water remaining on hand fit for use at Noon, 2300 "

Coal consumed during the preceding 24 hours, 5 tons 2180 lbs.

Coal remaining on hand at Noon, 59 " 1720 "

P. M.														
								a						
1	1	2	Sounding	E.by.S.	South	4	1	30.36	69	69	64	b.c.	cir-str	6 S.
2	2	6	51.4	S.E.by.S.	S.by.W.	4	1½	30.34	69	67	66	"	"	2 "
3	5	2	56.9	S.E.by.E.1/4.E.	"	4	1½	30.32	69	67	66	"	"	3 "
4	5	0	62.0	"	"	4	1	30.32	69	67	66	"	"	2 "
5	5	2	68.2	"	"	4	½	30.32	69	67	66	o.c	cirr-cum	0 "
6	5	4	73.6	S.E.3/4.E.	S.S.W.	4	½	30.32	69	67	66	"	"	0 "
7	5	0	79.0	S.E.½.E.	S.W.by.W. to S.W.	3	½	30.32	69	68	64	b.c.	"	2 "
8	4	8	83.1	S.E.3/4.E.		3-4	3/4	30.32	69	68	64	"	"	2 "
9	5	0	88.2	S.E.½.E.	S.S.W.	3	3/4	30.33	69	68	64	c	cir-cum	0 "
10	5	3	93.3	S.E.1/4.E.	"	3	½	30.32	69	68	64	b.c.	"	1 "
11	5	2	99.2	S.E.	S.W.by.S.	3	½	30.32	69	68	64	"	"	4 "
Mid.	5	6	4.9	"	"	3	½	30.32	69	68	64	"	"	0 "

Dy. 806
N. 40° 22'
W. 20°

under the command of Commander T. F. Jewell, U. S. Navy,
Tuesday September 28th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences Meridian 4 A.M.

Overcast cloudy, hazy around horizon. Cirrus clouds. Gentle to moderate breeze from S by E. Smooth sea. At end of watch on course S.E. by E. ½ E. under steam and fore and aft sail. Average pressure 80. Revolutions 35.

A.T. Jeffers
Ensign U.S.N.

From 4 to 8 A.M.

Overcast with light passing showers. Wind moderate from S.S.W. shifting in pain squall to S.E. at 5m. took in fore & aft sail. At 6m wind shifted to S.W. set fore & aft sail. At 6.30 made clear plain sail. wind hauling to S.S.W. & S. stood full by under all fore & aft sail. At 7m by order of Commdg Officer changed course to E.S.E.

Ch. Galloway Asst Engr

From 8 A.M. to Meridian

Fine weather with light squalls 3d hour, generally passing clear of ship. Gentle to moderate breeze from South. Barometer falling slowly 30.4 - 30.3 S.S.E. a schr with sails from N.W. at 9h furled the Royals. at 9.30 quarters for inspection. Exercised as follows: 1st Sir. Rifles. 3d Sir. Oral instruction in Gunnery. Powder Sir. The Defects of the Soldier. Engrs Sir. Rifles. Fas. Sir. Instruction by the Medical Officer of the Ship in the application of Tourniquets. Marines School of the Company. Punishments as follows were awarded by the Comdr Comdg: J. J. Clifford Ord. sea. 2 C. 1 weeks extra duty for not bringing hammock on deck at 4 A.M.: J. Fitz Ord. same punishment for not having shoes at inspection: J.A. Winters, Ord. Seaman 4/14 C. (Coal Sea. 2 C.), for articles in lucky bag, six weeks extra duty: J.A. Williams 2. C. Appr. same punishment for being habitually slow in answering call for first lieut: W.M. Smith Sea. same punishment for articles in lucky bag: W.C. Hammond 1. C. Appr. 2 hours extra duty for inattention to duty: J. Rabiga, Ord. 4 hours extra duty for having soiled shoes at inspection: J.E. Desbois 1. C. Appr. 2 days extra duty for having shoes in lucky bag. By the wind, under steam and sail. Sail at 12m. Square sail to T. Jet Sails, Head Sails, M. Trysail & Spanker Patent log at 48.

H.H. Gearing
Lieut U.S.N.

From Meridian to 4 P.M.

Cloudy & cool weather. Moderate breeze from South & S by W. Smooth sea, ship steady. Barometer falling slowly. At 12.15 called all hands & furled sail preparatory to sounding. Got cast 25 in 2162 fms: bottom obsd fine sand. Expended one sinker. At 1m made sail to M. Jet Sails and hauled fires in No 5 & 6 boilers & un coupled propeller. Steering full & by m Starboard Stock. At 2m commenced dredging. Patent log registered 62. at end of watch.

T. Brown
Ensign U.S.N.

From 4 to 6 P.M.

Overcast & cloudy: cumi & much clouds. Moderate breeze from S by W. & S.S.W. Moderate sea, ship steady. Full & by, course S.E. ½ E. at end of watch, under plain sail Jet Sails except Mainsail, & T.S. Stays'l & Trysail.

A.T. Jeffers
Ensign U.S.N.

From 6 to 8 P.M.

Overcast first hour, partially clear last hour. Light to moderate breeze from S.S.W. to S.W. shifting two or three points frequently & variable in force. Smooth sea.

Ch. Galloway
Asst Engr

From 8 P.M. to Midnight

Cloudy & pleasant. Gentle breeze from S.S.W. & S.W. by S. Barometer steady. Sea smooth. At 8m stopped dredging: hauled fires & lowered smoke pipe. At 10.40 took in M. Trysail & at Mainsail. At 10.30 changed course to S.E. Patent log at 12m, 4.9 knots.

H.H. Gearing
Lieut U.S.N.

Examined and found to be correct.

A.T. Mahan
Lieut & Nav Navigator.

Moons Declination S. 3° 32' First Quarter.

LOG of the UNITED STATES Steamer "Essex", 3d " Rate,

At Sea making passage to Gibraltar, Spain

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a.								
1	6	0	11.1	S E.	S W.	3	5	1/2	30.29	69	68	64	68	, o.c.	cuw	0	S
2	5	2	16.3	"	"	3	5	1/2	30.38	40	68	64	68	b.c.	"	1	"
3	5	2	21.8	"	"	3	5	1/2	30.26	40	68	64	68	"	"	1	"
4	5	5	26.3	"	"	3	3	1/2	30.25	40	68	64	68	"	"	2	"
5	6	5	33.6	S E. by E.	S W. by S	4	3	3/4	30.26	40	68	63	68	"	nimb	1	"
6	6	4	40.5	S E.	"	4		1/2	30.26	40	64	63	68	"	"	1	"
Dq 7 91 7	6	2	46.5	"	"	4-3		1/2	30.24	69	64	63	68	"	"	1	"
N 40° 8	6	0	52.4	S E. by E	S S W.	4		1/2	30.29	69	64	63	68	"	"	2	"
W 18' 39' 9	5	6	59.0	S E.	S W. by S	4		1/2	30.38	40	68	65	69	"	"	2	"
10	5	6	65.5	S E. by E. 1/2 E.	S S W.	3		1/2	30.24	40	69	66	68	"	cir cum	5	"
11	5	8	71.3	S E. by E.	"	3		1/2	30.24	40	40	66	68	"	"	8	"
Noon.	5	5	76.0	S E. by E. E. 1/2 E.	"	3		1/2	30.26	40	41	64	68	"	"	9	"

Course and distance made good since preceding noon by observations, S E by E. 120 knots. tenths.

Dq 791

Position at Noon: Latitude by D. R. N. 40 ° 00 ' "
Longitude by D. R. W. 19 ° 58 ' "
Latitude by observations of ⊙ N. 39 ° 58 ' "
Longitude by chronometer from Forenoon Observations of ⊙ W. 18 ° 08 ' "

Position at 8 a. m. Latitude by D. R. N. 40 ° 00 ' "
Longitude by Chron do do do W. 18 ° 39 ' "

Position at 8 P. M. Latitude by Chron N. 39 ° 59 ' "
Longitude by Chron P. M. do do W. 19 ° 11 ' "

Current during the time, knots 8 tenths per hour, setting to the W. S. W. 1/4 W.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 4h 0m " E. S E. W 23 ° 13 ' "

Water expended during the preceding 24 hours, 350 gallons.

Water Distilled during the preceding 24 hours, 850 "

Water remaining on hand fit for use at Noon, 2800 "

Coal consumed during the preceding 24 hours, tons 2160 lbs.

Coal remaining on hand at Noon, 58 " 1801 "

P. M.														
1	5	4	81.7	E S E. 1/4 E.	South	3	3	3/4	30.25	41	40	64	68	b.c.	cuw	8	S.
2	5	3	87.3	S E. by E. 1/2 E.	S by W.	3	3	3/4	30.23	42	40	66	68	"	"	6	"
3	5	2	92.9	S E. by E. 3/4 E.	"	3	3	3/4	30.22	41	69	66	68	"	"	6	"
4	5	2	98.9	E S E.	"	3	3	3/4	30.21	41	69	66	68	"	"	6	"
5	5	6	4.9	"	S S W.	3	3	1	30.20	40	68	65	64	"	"	4	2
6	5	8	10.1	S E. 3/4 E.	S W.	3	3	1/2	30.20	40	68	65	64	"	"	6	"
7	5	4	14.8	S E. 1/4 S.	"	3	3	3/4	30.20	42	68	65	64	"	"	2	"
8	4	6	19.4	"	"	3	3	3/4	30.20	42	64	65	68	"	"	8	S.
9	4	3	24.3	S E. 3/4 S.	S W. by S	3	3	1/2	30.20	42	68	66	68	"	"	8	"
10	4	4	29.3	"	"	3	3	1/2	30.20	42	68	66	68	"	"	9	"
11	5	1	34.2	S E. by S	S W.	3	4	1/2	30.20	42	68	66	68	"	"	4	"
Mid.	5	6	39.6	"	"	3	3	0	30.19	41	68	66	68	"	"	6	"

under the command of Commander T. F. Jewell, U. S. Navy,

Wednesday September 29th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Little H.A.M.

Cloudy and Cool. Fresh to moderate breeze from S.W. Barometer falling Sea smooth. At 3.20 set Royals, Fore and Mizzen Topmast Staysails. At end of watch steering a course S.E, under plain sail to Royals except Flying Jib: also Main and Mizzen Topmast Staysails.

F. G. Wais
Lieut U. S. N.

From H. to 8. A.M.

Cloudy and pleasant. Some and pink clouds. Clearing slightly at end of watch. Moderate to gentle breeze from S.W. by S. and S.S.W. Smooth Sea. At 4h. set Jib and hauled down Main and Mizzen Topmast Staysails at 4h. At end of watch, on course S.E, under plain sail to Royals and Fore Topmast Staysail.

C. S. Towson
Ensign U. S. N.

From 8. A.M. to Meridian.

Clearing and fair weather. Moderate breeze from S.S.E. and S.W. by S. Mustered and inspected crew at Quarters at 9h. A.M. Exercised divisions as follows: 1st and 3d Divs. Single Sticks, 2d Div. Rifles, Prod. Div. Facing and Marching, Marine Guard, Skirmishers. By order of Com'g Officer J. Williams, 2d Capt, was confined for 5 days on bread and water for insubordination and shirking Guard mount.

E. P. Galloway
Lieut U. S. N.

From Meridian to H. P.M.

Pleasant weather. Fresh breeze from South and S. by W. Barometer falling slowly 30.26 - 30.16. Sea smooth. A ship and a barque in sight. No change in sail carried. By the wind. Watch employed making Repairs.

H. Helsearing
Lieut U. S. N.

From H. to 6. P.M.

Clear and pleasant. Fresh breeze from S.S.E. and S.S.W. Exchanged colors with French Steamer "Ste Laurent" standing to Westward. Ship came to course S.E. by S. at 5h. Under plain sail to Royals.

B. F. Waring
Lieut U. S. N.

From 6. to 8. P.M.

Generally clear bright starlight. Some clouds. Fresh breeze from S.S. Smooth Sea with long Westerly swell. At end of watch, on course S.E. by S, under plain sail to Royals, Fore Topmast Staysail and Main Trysail.

C. S. Towson
Ensign U. S. N.

From 8. P.M. to Midnight

Clear and pleasant. Fresh to moderate breeze from S.W. by S. and S.W. Light cirrus clouds passing over from N.W. Sea smooth. Fresh swell from N.W. At 8h. changed course to S.W. by S. Sail same.

E. P. Galloway
Lieut U. S. N.

Examined and found to be correct.

Moons Declination S 8° 1' First Quarter

A. V. Wadhams.
Lieut U.S.N. Navigator.

LOG of the UNITED STATES Steamer "Essex" 30 Rate,

At Sea making passage to Gibraltar, Spain.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a								
1	5	9	44.8	S 9E. 3/4 E.	S.W. by W.	2	3	1/2	30.14	70	68	66	68	b.	none	10	S.
2	4	8	49.8	"		2	3	1/2	30.15	70	68	66	68	"	"	10	"
3	4	3	54.4	"	S.W.	2	3	1/2	30.13	70	68	66	68	"	"	10	"
4	4	2	58.6	"	"	2		1/2	30.11	69	68	66	68	"	"	10	"
5	4	0	62.4	"	"	2		1/2	30.10	70	68	66	64	b.c.	cir. str.	4	"
6	3	8	66.2	"	West	2			30.09	70	68	66	64	"	"	8	"
7	3	5	69.6	"	"	2			30.09	70	70	64	64	"	"	4	"
8	3	4	74.4	"	W. N. W.	2			30.10	70	68	66	64	"	"	9	"
9	3	4	45.0	"	West	2			30.10	69	68	66	68	"	cir. str.	6	"
10	4	0	48.1	"	W. by S.	2=3			30.10	69	68	66	64	"	"	5	"
11	4	0	81.6	"	S.W. by W.	3			30.09	70	70	64	68	"	"	2	"
Noon.	4	4	86.1	"	"	3			30.07	70	70	68	69	"	"	2	"

Course and distance made good since preceding noon by observations, S 9E. 1/4 E. 104 knots tenths.

Position at Noon:
- Latitude by D. R. — N 39 . 21 . "
- Longitude by D. R. — W 16 . 02 . "
- Latitude by observations of ⊙ — N 39 . 22 . "
- Longitude by chronometer from Forenoon Observations of ⊙ — W 16 . 03 . "

Dy. 791

Position at 8 a. m.
- Latitude by D. R. — N 39 . 31 . "
- Longitude by Chro do do do — W 16 . 16 . "

Position at 8 P. M.
- Latitude by D. R. — N 38 . 54 . "
- Longitude by Chro P. M. do do — W 15 . 00 . "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 3 5/4 P.M. " S E by S W 21 ° ' "

Water expended during the preceding 24 hours, 325 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2425 "

Coal consumed during the preceding 24 hours, 2 tons 980 lbs.

Coal remaining on hand at Noon, 56 " 821 "

P. M.														
1	4	0	91.0	S.S.E. 3/4 E. S.E. by S.	S.W. by W.	3	1/4	30.07	70	70	68	69	b.c.	cir. cumu.
2	5	2	96.4	"	"	3	1/2	30.06	70	70	68	69	"	" str.
3	5	8	1.25	"	"	3	1/2	30.04	70	70	68	69	"	"
4	5	8	7.5	"	W. S. W.	3			30.00	72	72	68	69	"	"		
5	6	4	13.9	"	W. by S.	3-4	0		29.99	71	70	64	69	"	cumu. mind		
6	4	4	21.3	"	N. by W.	3-5	0		29.99	70	68	66	64	b.c.g.	much	0	"
7	9	0	30.5	"	"	5-6			30.01	70	65	63	68	b.c.gr.	"	0	"
8	4	1	34.6	"	"	4-5			30.04	69	63	62	68	"	"	0	"
9	4	6	42.2	"	N. N. W.	3-4			30.04	70	64	63	68	b.c.r.	"	0	"
10	Sounding 44.6					3-4			30.04	70	64	63	68	"	"	0	"
11	"			"	"	5-6			30.04	70	64	63	64	b.c.g.	"	6	"
Mid.	5	0		S. E. 1/4 S.	"	5			30.04	70	65	64	64	b.	"	0	"

Dy 742 N 38°.54' W 15°

under the command of Commander T. F. Jewell, U. S. Navy,

Thursday September 30th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences with Cutlet A.M.

Fine clear weather. Starlight. Light breeze from S.W. by W. & S.W. Barometer falling 30.19-30.11. Sighted rock. Pumped ship. Stering course S.S.E. ½ E. at 4.00 patent log read 58.6 knots.

Lieut U.S.N.

From 4 to 8 A.M.

Clear & pleasant. Light breeze from S.W. & W.N.W. Smooth sea. at daylight sighted two barques standing to Southward & at 7.00, another barque standing to S.W. Pumped ship, out at 6, finding 6½" in bilge.

T. F. Jewell
Lieut U.S.N.

From 8 A.M. to Meridian.

Partly clear bright & pleasant. Light to gentle breeze from N.W. by W. Smooth sea with long W'ly swell. At 9.30 went to Quarters for inspection, after which drilled as follows. 1st 2d & 3d Divs, Great Guns, Powder, School of Soldier, Engish Small Arms. Set watch clear of Mainsail at 9.50 A.M. & Hoisted T. Staysails at 10.20. Roused up & overhauled boiler chains. At end of watch in Course S.S.E. ½ E. under plain sail to Royals, Fore, Main & Mizzen Topmast Staysails. Bark in sight, on lee bow.

C.A.T. Jewell
Ensign U.S.N.

From Meridian to 4 P.M.

Cloudy. Moderate breeze from S.W. by W. & W.S.W. Overhauled chains. At 2.00 sighted a barque close hauled, on the Starboard tack, bearing broad off the port quarter, & at 3.45, a ship dead ahead, close hauled, on the Starboard tack. Sea smooth.

Ed Galloway
Lieut U.S.N.

From 4 to 6 P.M.

Fresh to moderate breeze from West, until 5.35 when wind shifted to N. by W. in a fresh squall. Barometer steady. Sea smooth. At 5.20 furled Mainsail & Set M. Trysail. With shift of wind took in Royals, Flying Jib M. & Miz Topmast Staysails, M. Trysail & Spanker. Pumped ship out at 5.25 with 9" in bilge. Steering Course S.E. by S. Patent log at 6.00 21.3. Sails, plain, & as to T. Jib Sails & are Stanchions.

L. M. Keasing.
Lieut. U.S.N.

From 6 to 8 P.M.

Overcast, squally & rainy. Moderate to very fresh breeze from N. by W. Moderate piping sea. At 7.10 took in & furled T.G. Sails. Ship on course S.E. by S. Barometer rising.

T. F. Jewell
Lieut U.S.N.

From 8 P.M. to Midnight.

First part of watch rainy. Last half clear & pleasant. Fresh squalls from N.N.W. from 10 to 11. Fresh breeze from N.N.W. at end of watch. Moderate sea from N.N.W. At 8.30 shortened & furled Sail. Steamed ahead on same course S.E. by S. at 9.00 stopped & sounded in 24 11 fms, on pulling in water wire & lost 2500 fms wire & sinker, no sounding cup & 15 fms strand line. Lighted a green light, at 11.00. At 11.15 steamed ahead on course S.E. ½ S. & made sail to Royals. At 11.55 tacked ship and unreefed sails. At end of watch under Jib, Foresail, Topsails, T. Jib Sails & Royals.

C.A.T. Jewell
Ensign U.S.N.

Examined and found to be correct.

A.V. Washington
Lieut & Navigator.

Moon's Declination S 11° 4' First Quarter

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to Gibraltar, Spain.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									@						cir		
1	4	0	59.2	S.E.½E	N.W.by.N.	5-4			30.02	72	65	61	68	b.c.	cir cum	4	S
2	4	5	64.4	"	N.N.W.	5-4			30.02	71	65	61	68	"	"	6	"
3	4	9	72.2	"	"	5-4			30.01	70	65	60	68	"	"	6	"
4	4	4	79.5	"	N.W.	5-4			30.01	69	65	60	68	"	"	4	"
5	4	3	84.1	"	"	5-6	0		30.02	68	65	60	68	"	"	8	"
6	4	0	94.6	"	N.N.W.	5-6	0		30.03	64	64	60	68	"	"	9	"
7	4	0	2.0	"	"	5-6	0		30.05	64	65	61	68	"	"	6	"
8	4	2	8.4	"	"	5-6	0		30.08	64	64	62	68	"	"	5	"
9	4	2	15.6	"	"	5-6			30.09	64	66	60	68	"	"	6	"
10	6	3	31.9	"	"	5			30.11	68	66	62	69	"	"	6	"
11	4	0	35.9	"	"	5			30.11	68	66	62	69	"	"	6	"
Noon.			36.0	Sounding	"	5			30.11	68	66	62	69	"	d	6	"

Course and distance made good since preceding noon by observations, S.E.by.E.½E. 43 knots tenths.

Position at Noon:
- Latitude by D. R. N. 38 . 12 . "
- Longitude by D. R. W. 13 . 30 . "
- Latitude by observations of ⊙ N. 38 . 07 . "
- Longitude by chronometer from Forenoon Observations of ⊙ W. 13 . 32 . "

Position at 8 a. m.:
- Latitude by D. R. N. 38 . 25 . "
- Longitude by Chron ″ ″ ″ W. 13 . 44 . "

Position at 8 P. M.:
- Latitude by D. R. N. 34 . 49 . "
- Longitude by Chron P.M. ″ ″ W. 12 . 32 . "

Current during the time, knots 2 tenths per hour, setting to the S.S.E.½E.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at 4.51 " S.E.by.E. W. 21 ° ′ ″

Water expended during the preceding 24 hours, 345 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2050 "

Coal consumed during the preceding 24 hours, 1 tons 1020 lbs.

Coal remaining on hand at Noon, 54 " 2041 "

P. M.																	
1	5	0	37.6	S.E.½.S. S.E.½.S.	N.by.E.	5-4			30.10	64	68	62	69	b.c.	cir cum	5	S
2	5	8	38.2	"	N.N.E.	4			30.09	64	66	60	69	"	"	6	"
3	5	3	43.0	"	N.E.by.N.	3-4			30.10	68	66	61	69	"	"	4	"
4	5	4	48.3	"	"	4			30.08	68	66	61	69	"	"	2	"
5	5	9	53.7	"	North	5			30.10	64	66	61	68	"	"	2	"
6	6	4	59.2	"	N.by.E.	5			30.10	64	66	61	68	"	"	3	"
7	5	0	63.9	"	N.N.E.	3	1		30.12	64	66	61	68	"	"	8	"
8	4	2	68.1	"	"	3	1		30.13	64	66	61	68	"	"	8	"
9	5	5	74.4	S.″E.	N.″E.	2			30.15	64	65	60	64	"	"	2	"
10	5	5	81.2	S.E.½.E.	″	2			30.15	68	65	60	64	"	"	6	"
11	4	0	84.5	S.E.	″	1-2			30.15	64	66	61	64	"	"	6	"
Mid.	5	5	94.1	S.E.½.E.	″	1			30.14	64	66	61	64	"	"	6	"

under the command of Commander T. T. Jewell, U. S. Navy,

Friday October 1st, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Ends at A. M.

Clear & pleasant with fresh to very fresh breeze from N. W. by N. to N. W. Smooth sea, piping latter part of watch. Chip rolling easily, hove to 6h. at 3h. 00m. Landed down Jib. Chip under all square sail except Mainsail.

T. D. Galloway
Asst. U. S. N.

From 4 to 8 A. M.

Fine clear weather. Stiff to fresh breeze from N. W. & N. N. W. Coast in sight. Sail, carried at 8h., square sail to T. Gaff Sails & Jib. Patent log at 8h., 8. Miles.

H. C. Gearing
Asst. U. S. N.

From 8 A. M. to Meridian

Clear & pleasant. Stiff breeze from N. N. W. Moderate sea. At 10h. 30m. called all hands & Shortened sail preparatory to sounding. Got cast No. 24 in 2250 fms. bottom, ooze & fine sand. Expended 2m. sinker. At 11h. made sail to Royals & put ship on course S. E. ½ S. Put over patent log at noon reading 56.0

B. F. Wadleigh
Ensign U. S. N.

From Meridian to 4 P. M.

Partly clear, pleasant. Cirrus clouds. Stiff to moderate from N. by E. 1st hour, shifting to N. N. E. 2d hour & N. E. by N. afterwards. Moderate breeze. At 12h. 10m. changed course to S. E. ¼ S. Patent log 57.0 At 1h. 00m. set F. & Main Topsails & Main Topsail Reefs hove to. At 1h. 15m. stopped engines, banked fires & uncoupled propeller. At 1h. 30m. started distilling. Sunbeam sea from N. by W. N. N. W. Steel at 2h. o'clock sighted a steamer under sail on weather quarter. She had same bearing at end of watch. At end of watch on course S. E. ½ S. square sail except Mainsail. F. Topsail Flying Jib, M. T. Staysail & Spanker.

E. T. Strong
Ensign U. S. N.

From 4 to 6 P. M.

Clear & pleasant. Moderate to stiff breeze from N. & N. by E. At 5h. 30m. set Flying Jib, Spanker & Jack Topsail. Sea smooth. Steele going down. Coast sail in sight.

T. D. Galloway
Asst. U. S. N.

From 6 to 8 P. M.

Fine weather. Moderate to light breeze from N. N. E. Smooth sea with long swell from N. W. At 7h. 25m. spread & went ahead on engines at 7h. 45m. Course S. E. ¼ S. Under steam & all sail except Mainsail & M. T. Staysail. Patent log 68.1

H. C. Gearing
Asst. U. S. N.

From 8 P. M. to Midnight

Clear & pleasant. Light breeze & airs from N. E. At 11:00 took in & furled square sail & Flying Jib. Changed course at 9h. 00m. & 11:00 to clear passing vessels. Sighted three sails standing to N. & W. & S. & W. At end of watch under steam & Fore & Aft sail, excepting Flying Jib. Steering S. E.

B. F. Wadleigh
Asst. U. S. N.

Examined and found to be correct.

A. W. Marshall
Asst. & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

At Sea making passage to Gibraltar, Spain.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a								
1	7	4	101.0	S.E.	West	1			30.11	70	66	61	68	b.c.	cumu cumu	7	S.
2	7	3	104.6	"		1			30.09	69	66	62	68	"	"	5	"
3	7	2	114.9	"	S.W.	1-2			30.07	68	66	61	69	b.c.d.	"	3	"
4	7	8	121.1	"		1-2			30.06	68	66	61	69	b.c.	"	7	"
5	7	0	126.2	"	W.S.W.	2			30.06	68	66	61	69	b.c.h.	"	5	"
6		Sounding			"	2-3			30.07	68	66	62	69	b.c.	"	5	"
7	6	3	132.3	S.E.½S.	West	3			30.09	68	66	63	69	"	"	5	"
8	6	6	138.4	"	S.W.	3			30.10	68	66	62	69	"	cir cumu str	6	"
9	6	6	145.	"	"	3			30.11	68	66	63	69	"	"	3	2
10	3	9	52.8	S.E.½E.	"	2-3			30.11	68	66	62	69	"	"	3	"
11	7	6	60.4	"	S.by E.	2-3			30.10	69	67	62	69	"	"	4	"
Noon.	7	2	67.1	"	"	2			30.10	69	67	62	69	"	"	6	"

Course and distance made good since preceding noon by observations, S.E.by E. 3/4 E. 147 knots. tenths.

Position at Noon: Latitude by D. R. N. 37°.04' "
Longitude by D. R. W. 10°.45' "
Latitude by observations of ⊙ N. 34°.05' "
Longitude by chronometer from Forenoon Observations of ⊙ W. 10°.45' "

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Position at 8 a. m. Latitude by D. R. N. 34°.17' "
Longitude by Chro do do do W. 11°.19' "

Position at 8 P. M. Latitude by D. R. N. 36°.48' "
Longitude by Chro P.M. do do W. 9°.42' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 7h 35m A.M. " S.E.½S. W.19°.38' "

Water expended during the preceding 24 hours, 345 gallons.

Water Distilled during the preceding 24 hours, 445 "

Water remaining on hand fit for use at Noon, 2150 "

Coal consumed during the preceding 24 hours, 6 tons 50 lbs.

Coal remaining on hand at Noon, 48 "1991 "

P. M.																	
1	7	0	44.	S.E.¾S.	S.by W.	3			30.08	69	68	63	69	b.c.	cir cumu str	6	S.
2	2	0	76.	"		3			30.08	69	69	64	69	"	"	7	"
3	8	2	84.2	S.E.by S.	S.S.W.	3			30.07	69	69	64	69	"	"	6	"
4	8	3	92.5	"	S.W.by S.	3			30.08	69	69	64	69	"	"	7	"
5	7	4	100.6	"	S.S.W.	3			30.06	69	68	64	69	"	"	6	"
6	7	6	108.6	"	"	3			30.05	70	68	64	69	"	"	7	"
7	7	4	116.7	"	S.W.by S.	2			30.07	71	68	64	69	"	cumu	7	"
8	7	2	124.7	"	S.W.	3			30.08	72	68	64	69	b.c.h.	"	6	"
9	7	5	32.2	"		3	1		30.08	70	68	63	69	b.c.	nimb	1	"
10	7	5	40.0	"	S.W.by W	3	1		30.08	70	68	63	69	c.	"	0	"
11	6	5	46.9			3	1		30.06	70	68	64	69	b.c.h.	"	3	"
Mid.	6	0	53.	S.E.	S.S.W.	3	1		30.06	70	68	65	69	c.	"	0	"

04.743
N 36.52
W 10°

under the command of Commander I. F. Stevens, U. S. Navy,
Saturday October 2nd, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Cutter H. A. M.

Partly clear pleasant. Bright starlight cumu and mind clouds. Very light drizzle 8 hour. Light airs from West first part, light airs to breze from S.W. afterwards. At 12 m. took in Fore and aft sail. At 2 m. set Fore and aft sail. Smooth sea with long swell from N. and W. Ship rolling easily. At end of watch, on course S.E. under steam and Fore and aft sail. Steam 4 Hrs. Revolutions 52.

C. A. F. Jeckells
Ensign U. S. N.

From 4 to 8 A. M.

Fair and pleasant. Light breze from W. by W. to West. Light passing showers about 5 m. At 4 to 4 took in Fore and aft Sail & kept Spanker brought Ship to wind. Stopped engines at 4 to began sounding, got cast No 28, 2 8 13 fms, Expended, one Sinker. At 6 m. Started ahead, on course S. E. by E. under steam alone, Took in Spanker. At 7 m. set Fore and A. sail. Breze S.W. increasing in force. Sea smooth, long swell from North. Ship rolling easily from 4 to 6.

C. Galloway
Asst U. S. N.

From 8 A. M. to Meridian

Clear and pleasant. Gentle breze from S.W. and light breze from S. by E. Cleaning Ship and painting boats. Set Square sail at 9.30 and changed course to S.E. by E. Took in square sail at 11:00.

B. F. Waring
Lieut U. S. N.

From Meridian to 4 P. M.

Clear and pleasant. Gentle breze from S. by W. gradually hauling to S.W. by S. Smooth sea. At 1.10 brought Ship head to wind and got cast No 29 in 16 1/3 fms water bottom mud. Expended one Sinker. At 2.55 made sail to Royals & put Ship on course S.E. by E. Patent log registered 92.5 at end of watch.

H. C. Gearing.
Lieut U. S. N.

From 4 to 6 P. M.

Partly clear bright pleasant cir cumu and strat clouds. Gentle breze from S.S.W. Smooth Sea, with long N'ly Swell. At end of watch under plain sail to Royals, kept Mainsail and steam, on course S.E. by E.

C. A. F. Jeckells
Ensign U. S. N.

From 6 to 8 P. M.

Clear and pleasant. Light to gentle breze from S.W. by S. & S.W. Clouds passing over from S.W. at 7 50 Think clouds with light rain. Sea smooth.

C. Galloway
Lieut U. S. N.

From 8 P. M. to Midnight

Cloudy and pleasant. Gentle breze from S.W. to S. by W. Sea smooth. At 9 30 took in Topsails. At 10 30, sighted Cape St Vincent Light bearing N. E. by E. At 11.30 took in Foresail. At 11 m. changed course to S.E. (per standard) At 12 m. got cast with Navigational Sounding Machine, no bottom at 10 fms. At 12 m. Cape St Vincent Light bore N. E. by N.

H. C. Gearing.
Lieut U. S. N.

Examined and found to be correct.

A. Wadham.
Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d " Rate,

at Sea making passage to Gibraltar, Spain.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.															cum		
1	5	8	58.9	S.E.	S.S.E.	2			30.04	69	68	65	69	b.c.	cir. nimb.	5	S.
2	6	2	65.	"	S.E.	2			30.02	70	68	64	69	"	"	3	"
3	6	3	71.2	"	S.E. by E.	1			30.00	70	67	64	69	"	"	5	"
4	6	6	77.8	"	South.	3			29.99	69	67	64	69	"	"	4	"
5	8	0	85.6	"	S.W. by S.	3			30.00	70	68	64	69	"	cum str	6	"
6	2/3	8/8	93.5	S.E. by E.	S.S.W.	4			30.00	70	68	64	69	"	"	5	"
7	8	0	101.5	"	S. by W.	4			30.02	70	68	64	69	"	cum	0	"
8	4	6	109.5	"	"	4			30.02	70	68	65	69	b.c.	"	0	"
9	6	6	116.4	"	South.	4			30.04	70	69	65	69	b.c.	nimb	0	"
10	6	6	123.2	"	"	4			30.05	70	69	65	69	b.c.	"	1	"
11	6	2	130.5	"	"	4			30.05	70	70	66	70	"	cir cum	5	"
Noon.	6	6	137.6	"	"	3			30.05	71	70	66	70	"	"	6	"

Course and distance made good since preceding noon by observations, E.S.E. 1/2 E. 166 knots tenths.

Position at Noon:
- Latitude by D. R. — N 36 ° 15' " "
- Longitude by D. R. — W 4 ° 23' " "
- Latitude by observations of ⊙ — N 36 ° 15' " "
- Longitude by chronometer from Forenoon Observations of ⊙ — W 4 ° 30' " "

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Position at 8 a. m.
- Latitude by D. R. — N 36 ° 23' " "
- Longitude by Chron. do do do — W 8 ° 03' " "

Position at 8 P. M.
- Latitude by D. R. — N 36 ° 05' " "
- Longitude by Chron. P.M. do do — W 6 ° 40' " "

Current during the time, knots 2.5 tenths per hour, setting to the West

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 7h 56m A.M. " S.E. by E. W 18 ° ' "

Water expended during the preceding 24 hours, 32/3 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 12/45 "

Coal consumed during the preceding 24 hours, 4 tons 1660 lbs.

Coal remaining on hand at Noon, 41 " 331 "

P. M.												
1	5	0	143.4	S.E. by E. 1/4 E.	S.E. by S.	2	30.08	74	71	68	b.c.	cir cum	3	S.
2	6	1	150.3	"	S.E. by E.	1-2	30.01	74	72	68	"	"	3	"
3	6	2	157.0	"	"	1	29.98	74	72	69	"	"	4	"
4	6	0	162.9	"	"	3	29.97	74	72	69	"	"	6	"
5	5	6	168.5	"	"	3	29.97	74	73	68	b.c.y.	"	6	"
6	4	8	173.3	"	"	4	29.93	74	73	68	"	"	4	N
7	3	6	176.5	"	"	4	29.93	74	72	69	b.c.	cum str	4	"
8	3	4	178.5	"	"	4	29.93	74	74	69	"	"	3	"
9	2	8	179.4	"	"	5-4	29.96	73	74	69	b.c.g.z.	"	3	"
10	2	6	80.4	"	"	6-4	29.97	74	74	69	"	cirrus	2	"
11	4	2	84.2	"	S.E.	5-6	29.98	74	74	69	b.c.g.z.	"	1	"
Mid.	5	0	89.0	"	"	4-6	29.98	74	74	69	b.c.g.z.	"	3	"

under the command of Commander T. F. Jewell, U. S. Navy,

Sunday October 3d, 1858.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Ends A.M.

Clear & pleasant. Cool. Light breezes from S.S.E. to S.E. by E. Ends 5.40 when wind shifted suddenly to S.S.W. set Trysail at 5.55. at 1.00 lost sight of Cape St. Vincent Light bearing (mag.) N.N.E. ½ E. Steam . Revolutions . Barometer falling.

From 4 to 8 A.M.

Partly clear; overcast last hour. Cloudy cum & Str. Moderate breeze from S.W. by S. to S. by W. Clear smooth. at 4.30 set Topsails, Jib Sail & Higgin Stays'l at 5.00 changed course to S.E. by S. Patent log 8.5. Two sails in sight to leeward at end of watch under steam & plain sail the Royals, with Fore & Higgin Topmast Stays'l and Main Trysail except Mainsail. On course S.E. by S.

W. F. Legardon
Ensign U. S. N.

From 8 A.M. to Meridian

Clear weather. Moderate breeze from S. at 9 A.M. took in all & guare sail. at 9.30 mustered & inspected crew at quarters. Commanding Officer inspected ship with crew at Quarters. At 9.45 called all hands to Muster read Articles for the better Government of the Navy and mustered crew. Sighted a number of Sails passed a Steamer and two English men-of-war about half a mile distant. Got up & bent both bower chains.

H. C. Gearing.
Lieut U. S. N.

From Meridian to 4 P.M.

Clear wind & pleasant. Light breeze from S.E. by E. At 12.45 took in Fore and aft sails. Engaged getting ship ready for port. Unbent Mainsail. Set Trysail & Main, and Higgin Topmast Staysails. Unrove gear of Mainsail & put cover on Main Yard. Clear all round. Several sail in sight, at end of watch. Got the anchors off the bows.

C. P. Calloway
Lieut U. S. N.

From 4 to 6 P.M.

Clear & pleasant. Gentle to moderate breeze from S.E. by E. On course S.E. by E. ½ E. under steam only. Sighted two steamers standing to N. & W. Barometer falling rapidly.

P. G. Watling
Lieut U. S. N.

From 6 to 8 P.M.

Partly cloudy, bright moonlight. Cumulo str. clouds. Moderate breeze from S.E. by E. Moderate sea ahead. At 7.05 started fires under tubes 1 & 3. At end of watch, on course S.E. by E. ½ E. under steam, alone.

W. F. Legardon
Ensign U. S. N.

From 8 P.M. to Midnight

Clear & pleasant. Stiff to very fresh breeze from S.E. by E. & S.E. at 9.30 bent Main Trysail. At 9.55 raised steam from tubes 1 & 3. Ship pitching, deeply at times into moderate head sea. At end of watch ship making 6 knots on course S.E. by E. ½ E. under steam. - Between 10 & 11 - lightning along horizon to the S.E. - Clouds passing over from aft forward & banking up in N.W.

Examined and found to be correct

C. P. Calloway Lieut U. S. N.

A. N. Williams Lieut & Navigator.

LOG of the UNITED STATES "Essex", 3d Rate,

at Sea making passage to Gibraltar, Spain.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a								
1	4	8	9.4	S.E. by E. 1/4 E.	S.E. by E.	4-6			29.98	74	70	68	69	b.cl.	cir-cumu	9	K
2	5	0	10.4	"	"	4-6			29.99	73	70	68	69	"	"	6	"
3	5	5	5.5	"	S.E.	4-5			30.00	73	70	67	69	"	"	3	S
4	6	4	12.6	"	S.E. by S.	3-4			29.99	72	70	67	69	"	"	1	"
5	5	5	20.1	E. by E.	"	3			30.01	72	70	66	69	"	cir	2	"
6	4	4	24.5	"	"	3			30.03	71	68	66	69	b.c.	"	5	"
7	3	6	31.1	E. by S.	"	2			30.05	71	68	66	69	"	"	6	"
8	3	0	38.6	E. by S.	"	2			30.05	70	68	67	69	"	"	1	"
9	Steaming round in straits of Gibraltar.			N.E.	E. by N.	1-2			30.06	70	69	68	69	"	cir cumu	3	"
10	Steaming into Gibraltar.				"	2			30.08	70	70	69	69	"	"	4	"
11					"	2			30.08	71	70	69	69	"	"	4	"
Noon.					"	1			30.08	71	70	69	69	"	"	6	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 32/5 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1400 "

Coal consumed during the preceding 24 hours, 10 tons 1540 lbs.

Coal remaining on hand at Noon, 30 " 1031 "

P. M.	Ships Head							
1	S.S.W.	S.W.	2	30.07	74	70	69	b.c. cir-cumu 6 S
2	S.W.	"	2	30.06	72	70	69	b.c. " 5 "
3	"	W. by S.	2	30.05	72	70	69	" " 3 "
4	N.W.	N.W.	3-4	30.05	73	70	69	b.c.p. cumu nimb 1 "
5	"	"	3	30.09	72	70	69	o.c.p. nimb 0 "
6	N. by W.	"	3	30.13	71	66	65	" " 0 "
7	N.W. by N.	"	3	30.17	71	66	64	" " 0 "
8			2	30.18	71	66	65	c.p.l. cirr 0 "
9	West	W. by W.	2	30.09	71	56	64	b.c.p.r. cirr nimb 2 "
10	W. by W.	"	2	30.08	71	56	63	" " 6 "
11	S.W. by W.	S.W.	3-6	30.10	71	46	63	b.c.p.g.r. " 6 "
Mid.	"	"	3-5	30.20	71	46	62	t.o.g. " 6 "

under the command of Commander T. F. Keese, U. S. Navy,
Monday October 4th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends 4 A. M.

Clear weather, clouding over latter part of watch. Stiff to fresh breeze from S. E. by E. moderating and hauling to S. E. by S. Moderate sea first two hours, smoothing down last two hours. Sea phosphorescent. Barometer steady. Lightning in horizon, shifting by South from S. W. to East. At 12 3m sighted Cape Spartel Light bearing E. N. E. 1/2 E. and at 12 45 Cape Spartel light bearing S. E. 3/4 S. At 3 40 these two lights and ship in range. At 4 00 Cape Spartel light bore S. by W. 1/2 W. Under steam all night. Steering course S. E. by E. 1/4 E.

H. le Gearing.
Lieut U. S. N.

From 4 to 8 A. M.

Foggy. Light to gentle breeze from S. E. by S. At 4.02 sighted Tarifa Light-House bearing E. by N. (Mag): at 4.22 changed course to E. S. E. At 6.10 Tarifa Point Light-House bore abeam. Changed course to E. by S. Changed course at 6.30 to E. by N. and at 7.30 to N. E. Passed five steamers and one barque, the latter by the coin of steamers standing to W. High land of Africa and Spain in both bows, beam and Quarter. At 8. Passed a steamer standing to E. At 7.45 hauled in patent log and steamed round in a circle, helm hard a port. At 7.55 put helm hard a-starboard and steamed in a circle to port. Tarred down rigging. Slowed down to five knots at 6.50. Bearing at 8, Pt Point N. by W. 1/2 W. distant about five miles.

B. F. Keating
Lieut U. S. N.

From 8 A. M. to Meridian.

Partially cloudy. Light breeze from E. N. E. Steaming around the straits of Gibraltar with starboard and port helm alternately until 8 30 when headed out N. by W. At 9 o'clock, at which time headed in for Rock of Gibraltar steering over slowly. Cleaning ship. At 10 04 went ahead 4 bells. Steaming into Gibraltar Bay in charge of Engineer Officer. At 11 40 anchored in 8 fms water with 45 fms in port chain. Bearings (P. C.) Pearl Castle E. N. E. 1/8 E., Light House on end of new mole S. by E. 3/8 E. Hauled fires under four boilers. Started distillers with other two. Received visit from an officer from H. M. S. "Dolphin".

C. A. F. Dechert
Ensign U. S. N.

From Meridian to 4 P. M.

Cloudy. Moderate breeze from S. and W. The American Consul came on board officially. Distilling.

Hugh Rodman
Ensign U. S. N.

From 4 to 8 P. M.

Cloudy. Raining most of watch. Little breeze from N. by W. Distilling.

C. A. F. Dechert
Ensign U. S. N.

From 8 P. M. to Midnight

Generally clear, with passing showers, rain, and wind in moderate squalls from the S. and W. Distilling.

Hugh Rodman
Ensign U. S. N.

Examined and found to be correct.

A. T. Mahan
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

at Anchor off Gibraltar, Spain.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a						cumu		
1				SW by W.	SW.	3			30.20	64	62			b.c.q.	nimb	5	S
2				"	"	3			30.20	64	62			"	"	4	"
3				"	"	3			30.20	64	62			"	"	4	"
4				"	"	3			30.21	64	62			"	"	4	"
5				S by W.	S" S W.	2			30.22	65	64			b.c.h.	"	3	"
6				W. N. W.	"	1			30.24	65	64			b.c.	cir cumu	4	"
7				N. by E.	"	1			30.25	66	64			"	"	2	"
8				N. N. E.	"	1			30.27	66	64			b.c.h.	"	9	"
9				N. by W.	"	1			30.29	68	64	65		b.c.g.	"	8	"
10				N. W. by N.	N. W.	1			30.30	68	66	64		b.c.h.	"	4	"
11				N. by W.	"	1			30.30	69	64	65			"	6	"
Noon.				N. W.	W. SW.	2-3			30.29	69	67	66		b.c.g.	"	8	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "
Longitude by D. R. ° ' "
Latitude by observations of ⊙ ° ' "
Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.: Latitude by ° ' "
Longitude by ° ' "

Position at 8 P. M.: Latitude by ° ' "
Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water Distilled during the preceding 24 hours, 1052½ "

Water remaining on hand fit for use at Noon, 2609 "

Coal consumed during the preceding 24 hours, 1 tons 2120 lbs.

Coal remaining on hand at Noon, 28 " 1151 "

P. M.											
1		W. by S.	West	2	30.24	70	69	65	b.c.g.	cir cumu	4 S.
2		South	"	1	30.24	70	70	66	"	"	4 "
3		W. S. W.	W. N. W.	2	30.24	71	70	66	"	"	5 "
4		West	"	2	30.24	71	70	64	"	"	5 "
5		W. N. W.	"	3	30.24	73	72	64	b.c.	"	5 "
6		"	"	3	30.23	72	69	66	"	"	4 "
7		"	N. W.	3	30.23	72	69	66	"	"	8 "
8		West	"	1-2	30.24	73	68	66	"	"	8 "
9		North	"	0-1	30.30	73	68	65	"	"	9 "
10		N. N. E.	Calm	0	30.30	72	68	65	"	cir	8 "
11		"	N. W.	0-1	30.30	72	67	65	b.c.g.	cumu	8 "
Mid.		"	"	0-1	30.30	71	66	64	"	str	8 "

under the command of Commander T. F. Jewell, U. S. Navy,
Tuesday October 5th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Latter M. A.M.
Cloudy & cool wind frequent heavy showers. Wind light to stiff from S.W.

E.D. Galloway
Lieut U.S.N.

From M. to 8 A.M.
Partly cloudy. Light wind from S.S.W. at 7/20 loosed sail.

C.A.T. Dechtler
Ensign U.S.N.

From 8 A.M. to Meridian
Fair between showers which came at intervals from the N.W. & W.; fresh breeze from same quarter. Painter ship outside. U.S.S. "Kearsarge" shifted anchorage from off Algeciras to Gibraltar. at 8 A.M. made ships number Cornet 41 Kearsarge answered Cornet 80. Commanding Officer paid an official visit to the Comdg Officer of the "Kearsarge" and to the Governor General of Gibraltar and the Senior Naval officer at the Dockyard. The Board of Survey of which Lieut J.C. Adams was senior member came on board & survey'd by me mercurial Barometer in the Navigation Department. A Medical board of which Surgn W.J. Farwell was senior member held Survey on M.J. Farrell, Qrs. Distilling.

Hugh Rodman
Ensign U.S.N.

From Meridian to 4 P.M.
Clear and pleasant. Light breeze from W.N.W. at 1:00 Kearsarge made signal 4826. Furled sails, put covers on Fore & Aft sails. Engaged painting ship, outside. An officer on the staff of the Governor of Gibraltar paid official visit to Comdg Officer. Distilling.

E.D. Galloway
Lieut U.S.N.

From 4 to 8 P.M.
Clear. Light breeze from the N.E. & W. Distilling.

Hugh Rodman
Ensign U.S.N.

From 8 P.M. to Midnight
Fair & pleasant. Calms & light airs from N.W. Moonlight. Distilling. Moon set at 11.45. At 11.55 tanks being full stopped distilling and hauled fires.

E.D. Galloway
Lieut U.S.N.

Examined and found to be correct.

T.T. Waterman
Lieut U.S. Navigator.

LOG of the UNITED STATES Steamer "Essex" 3d " Rate,

At Anchor off Gibraltar, Spain.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
				Ship's Head.					a								
A. M.																	
1				North	West	0-1			30.26	64	66	64		b.cd.	cir cum	9	S.
2				N. by E.	Calm	0			30.24	70	65	63		"	"	9	"
3				S. S. W.	"	0			30.24	69	64	62		"	"	9	"
4				S. W. by S.	"	0			30.22	68	64	62		"	"	9	"
5				W. by N.	"	0			30.21	67	64	62		b.c.y.	"	8	"
6				North	W. by N.	0-1			30.21	66	64	62		"	"	7	"
7				N. by E.	"	0-1			30.21	66	64	62		"	"	8	"
8				N. by W.	West	1			30.23	66	65	63		"	Cir	5	"
9				North	S. by W.	0-1			30.23	67	66	64		"	"	7	"
10					S. W.	2			30.23	69	68	66		"	"	8	"
11				N. by E.	"	2			30.22	70	69	68		b.c.	"	8	"
Noon.																	

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ' "
Longitude by D. R. ° ' "
Latitude by observations of ⊙ ° ' "
Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "
Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "
Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 325 gallons.

Water Distilled during the preceding 24 hours, 925 "

Water remaining on hand fit for use at Noon, 3200 "

Coal consumed during the preceding 24 hours, 1 tons 1350 lbs.

Coal remaining on hand at Noon, 26 " 2041 "

P. M.								
1	S. W.	S. W. by W.	3	30.19	70	67	66	b.c. cir cum 2 S.
2	S. W. by W.	"	3	30.18	70	67	66	" 2 "
3	S. W.	"	2-3	30.19	70	67	66	b.c.y cirr nimb 4 "
4	"	W. by S	2-3	30.19	70	69	66	b.c. cir cum 8 "
5	S. W. by S.	"	2	30.20	70	68	66	" nimb 2 "
6	W. by S.	"	2	30.21	70	67	65	" cum 1 "
7	West	W. by N.	2	30.23	71	66	62	" " 3 "
8	N. W. by N.	N. W.	1-2	30.24	72	65	62	" cir cum 4 "
9	N. N. W.	"	1	30.24	72	67	64	62 " " 3 "
10	North	"	1	30.24	72	67	64	62 " " 4 "
11	N. by E.	"	1	30.25	72	67	65	63 " " 9 "
Mid.		West	1	30.25	72	67	65	63 " " 6 "

under the command of Commander T. F. Jewell, U. S. Navy,

Wednesday October 6th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commenced and Cutter 4 A. M.
Clear, cool. Calm. Heavy dew.

W. C. Gearing,
Lieut- U. S. N.

From 4 to 8 A. M.
Clear, hazy, around horizon. Calm and light airs from W. and N. Received in Pay Dept 151 lbs fresh beef, 151 lbs fresh vegetables and 12 lbs fresh bread. At 7 A. M. the "Kearsarge" made General Signal 330 and Answered.

Hugh Rodman
Ensign U. S. N.

From 8 A. M. to Meridian.
Clear cool and pleasant. Gentle breeze from West then S. W. Engaged coaling ship. Captain Purvis R. N. Senior Naval Officer and Comdg Officer of H. B. M. S. Sylvia paid official visits to Comdg Officer.

C. S. Galloway
Lieut U. S. N.

From Meridian to 4 P. M.
Cloudy and pleasant. Gentle breeze from S. W. by W. to W. by N. Finished coaling ship at 3. taking in all 100 tons of Briff Coal. Commander Sigsbee U. S. N. Comdg the U. S. S. "Kearsarge" paid the ship an official visit. F. J. Horn Las, C. Wilder Las and C. H. Langdon P. M. absent without leave and for whose apprehension and delivery on board, a reward of two (2) pounds Sterling each was offered, were received on board, thrown over to the ship by the police authorities.

W. C. Gearing
Lieut- U. S. N.

From 4 to 8 P. M.
Fair, cool and pleasant. Light to gentle breeze from W. at 6.25 hauled fires. Sent liberty party on shore. J. Dunne Blacksmith brought on board by Garrison police, drunk! At 7, swinging to the tide. Transferred M. J. Carroll, Las, to the "Kearsarge" for passage to United States, condemned by Medical Survey.

C. S. Galloway
Lieut- U. S. N.

From 8 P. M. to Midnight.
Party landed cool. Light airs from N. W. and West. Moonlight.

W. C. Gearing.
Lieut- U. S. N.

Examined and found to be correct.

F. M. Mathewson
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", F Rate,

At Anchor off Gibraltar, Spain.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a								
1				N. W. by W.	West	1			30.23	4	65	63		b. c.	cir cumm	8	S.
2				N E by E	"	1			30.24	0	65	63		"	"	8	"
3				S E	"	1			30.20	4	0 65	63		"	"	9	"
4				N. W.	"	1			30.20	4	0 65	63		"	"	9	"
5					"	1			30.20	6	8 64	62		"	"	8	"
6				S W by S	N W	1			30.20	6	6 64	62		"	"	6	"
7				S W by W	"	1			30.23	6	8 65	64		"	"	4	"
8				N W by W	"	1			30.23	6	8 64	63		"	"	4	"
9				"	"	3			30.22	6	8 66	63		"	cir st	3	"
10				North	"	1			30.22	6	9 67	64		"	"	2	"
11				N by W	"	3			30.20	6	9 68	62		"	"	3	"
Noon.				"	"	3			30.20	6	9 68	62		"	"	3	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 3 4/5 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 260 4 "

Coal consumed during the preceding 24 hours, tons 8 4/0 lbs.

Coal remaining on hand at Noon, 1 2 6 " 1 2 0 1 "

P. M.							
1	N. by W.	N W. by W.	2-3	30.18	6 9 68	62	b. c. cir cumm 8 S.
2	"		2	30.18	7 0 4	0 65	b. cum " 8 "
3	"	N W.	2	30.16	7 0 4	0 62	" " 8 "
4	N. W. by W.	N. W. by W.	2	30.16	4 0 4	0 62	" " 8 "
5	N. W. by N.	N. W. by N.	2	30.15	4 0 6	8 62	b. cy " 4 "
6	W. by N.	"	2	30.15	4 0 6	4 63	" " 2 "
7	N W. by N.	"	2	30.16	4 0 6	6 62	" " 6 "
8	N. N. W.	"	2	30.17	4 0 6	5 62	" " 4 "
9	"	"	3	30.18	2 0 6	4 61	" " 6 "
10	"	"	3	30.18	2 1 6	4 61	" " 4 "
11	"	"	3	30.19	2 1 6	4 61	" " 5 "
Mid.	"	"	3	30.19	4 1 6	3 61	" " 5 "

under the command of Commander T. F. Jewell, U. S. Navy,
Thursday October 4th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From Meridian to 4 P.M.

Clear and cool. Light to gentle breeze from N.W. and W. and N.W. Sent an officer to visit Spanish Corvette "Gaditana", surveying duty. An officer of the "Gaditana" returned the call. Three steamers left the harbor and four English Steamers and one Italian barque came in and anchored. The following men returned being seven hours overtime. T. Shelton C.F.C., F. Wallace C. Topt. T.H. Beckerman P.M. and J. Hilley P.M. returned 2 hours overtime. Sent liberty party, on shore at 1 pm sailed sail.

D.T. Waering
Lieut U.S.N.

From 4 to 8 P.M.

Fair weather. Light to gentle breeze from N.W. by N. On one of its trips ashore Jas Perrity Coa. app.d C. jumped the boat. Sent a reward of 2 L.s Sterling for his delivery on board. Released Laurence Dunne R. Smith from duties charge as Coxswain. Expended one gig oar, broken in use, and one boat hook, pinnace cutter, broken in use.

H.C. Gearing.
Lieut U.S.N.

From 8 P.M. to Midnight.

Clear and pleasant. Gentle breeze from N.W. by N. Riding to chs.

D.T. Waering
Lieut U.S.N.

From Midnight to 4 A.M.

Clear and pleasant. Light airs from West. at 1.30 commenced sweeping, and at 3.30 swung to flood.

D.T. Waering
Lieut U.S.N.

From 4 to 8 A.M.

Clear and pleasant. Light breeze from West and N.W. at 6 made signal Int. 5 to 6 U.S.S. "Kearsarge", answered 9 at. Loose sail to a buntline. Received in Pay Dept. fresh provisions for crew 154 lbs beef, 151 lbs vegetables and 121 lbs bread. At 7.55 U.S.S. "Kearsarge" got underway and stood out in division line homeward bound.

Ed. G. Galloway
Lieut U.S.N.

From 8 A.M. to Meridian.

Pleasant weather. Light breeze from N.W. at 10 A.M. quarters for inspection. 2d and 3d Divisions exercised at rifles. Received in Pay Dept 5 bbls Flour 5 bbls Pork 2 Bags Beans 10 Boxes Soap. Received a communication from the Police Authorities of this shore to the effect that A. Carlsen C. Mate and W.B. Chinness P.M. had been arrested on shore for various offences. Sent an officer and brought them on board placing them in double irons to await the action of the Comdg Officer. The following absentees without leave F. Wallace C. Topt, C. Rose Sea app.d C, C. Anderson Cxn, T. Shelton C.F.C, A. Carlsen C. Mate J. Hilley P.M, J.H. Beckman P.M. and Chinnes P.M. Sent on shore a reward of two L.s Sterling for the apprehension and delivery on board of the above men excepting C. Anderson, four hours overtime and the two men named above turned over by the police.

H.C. Gearing.
Lieut U.S.N.

From Meridian to 4 P.M.

Clear and cool. Light to gentle breeze from N.W. and W. and N.W. Sent an officer to visit Spanish Corvette "Gaditana", surveying duty. An officer of the "Gaditana" returned the call. Three steamers left the harbor and four English Steamers and one Italian barque came in and anchored. The following men returned being seven hours overtime. T. Shelton C.F.C, F. Wallace C. Topt. T.H. Beckerman P.M. and J. Hilley P.M. returned 2 hours overtime. Sent liberty party, on shore at 1 pm sailed sail.

D.T. Waering
Lieut U.S.N.

From 4 to 8 P.M.

Fair weather. Light to gentle breeze from N.W. by N. On one of its trips ashore Jas Perrity Coa. app.d C. jumped the boat. Sent a reward of 2 L.s Sterling for his delivery on board. Released Laurence Dunne R. Smith from duties charge as Coxswain. Expended one gig oar, broken in use, and one boat hook, pinnace cutter, broken in use.

H.C. Gearing.
Lieut U.S.N.

From 8 P.M. to Midnight.

Clear and pleasant. Gentle breeze from N.W. by N. Riding to chs.

D.T. Waering
Lieut U.S.N.

Examined and found to be correct.

A.T. Williams.
Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Anchor off Gibraltar, Spain.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
				Ships Head													
A. M.									a/						a/n		
1				N. N. W.	West	3			30.16	70	63	61		b.c.	a/n	7	S
2				North	N. N. W.	2-3			30.16	68	63	61		"	"	7	"
3				"	N. by. W.	2-3			30.15	68	63	61		"	"	7	"
4				"	"	3			30.15	68	63	61		"		3	"
5				"	N. W.	2			30.15	67	64	61		"	cirr cu	2	"
6				East	"	0-1			30.16	67	64	61		"	"	2	"
7				South	Calm	0			30.16	68	64	62		"	"	1	"
8				S. S. W.	"	0			30.18	68	67	62		"	"	2	"
9				"	"	0			30.19	67	65	63		"	"	3	"
10				S. W.	"	0			30.20	68	67	63		b.c.	a/n	2	"
11				"	S. W.	0-1			30.20	68	67	64		"	"	2	"
Noon.				S. W. by. S.	"	1			30.20	68	67	63		"	"	3	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, Non gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 12000 "

Coal consumed during the preceding 24 hours, tons 2160 lbs.

Coal remaining on hand at Noon, 1785 " 13201 "

P. M.							
1	S. W.	S. W. by. S.	2	30.19	68	68	64
2	"	S. W. by. W.	2	30.16	68	68	64
3	S. " S. W.	S. S. W.	2	30.17	69	69	63
4	"	S. W. by. S.	2	30.16	69	69	60
5	S. West	S. by. E.	1	30.18	70	68	63
6	S. by. W.	South	0-1	30.19	70	68	64
7	S. S. W.	"	0-1	30.19	70	67	63
8	"	"	0-1	30.21	70	67	63
9	W. S. W.	W. S. W.	0-1	30.21	70	65	62
10	W. by. S.	"	1	30.22	70	65	62
11	S. W. by. W.	"	1	30.22	69	65	61
Mid.	N. W. by. N.	"	1	30.22	69	62	60

P. M.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
1	b.c.	cirr cumulus	4	S
2	"	"	4	"
3	"	"	4	"
4	"	"	4	"
5	"	"	7	"
6	b.o.y	"	8	"
7	"	"	8	"
8	b.c.	"	9	"
9	b.f.	mist	10	"
10	"	"	10	"
11	"	"	10	"
Mid.	"	"	10	"

under the command of Commander T. F. Jewell, U. S. Navy,
Friday October 8th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commenced and Muster at 4 A.M.
Cloudy and cool. Light to gentle breze from N by W. to West

C. F. Lenyon
Ensign U. S. N.

From 4 to 8 A.M.
Cloudy and cool. Light N. W. airs and calms. Pumped ship.

N. L. Gearing
Clerk U. S. N.

From 8. A. M. to Meridian.
Cloudy. Light airs from S.W. and calms. At 9. sent to Fire Quarters: 1st Stream in 50 s. 2d. stream in 1m 20s; 3d Stream in 2m 30s. Absent without leave W. Gormley Sea and J. F. Garrity Sea appd 2. J. F. Garrity Sea appd 2, was delivered on board by police. Received in Bay 26 bags Hard bread. Following men confined by order of Mid'g Officer W. F. M.: Cullan 2 days, and W. H. Touchfield 1. C. appd, for disobedience of order, five days in single irons; Alexander Spoulden, C. Hor. five days in double irons for being drunk and disorderly. Alexander Spoulden C. Hor; broke, on standing light-while at being confined. By steamers and one barque came in and anchored and two steamers left the harbor.

D. F. Walling
Clerk U. S. N.

From Meridian to 4 P.M.
Cloudy first part of watch, clearing towards end. Light breze from S.W. and S.W. by S. Commanding Officer liberates A. Carlson, C.M. to Lieutenant and transferred him to U. S. S. Pensacola. By order of Mid'g Officer placed F. Gaynor 1. C. appd, J. Hartle 1. C. appd and J. Welch 1. C. A, in double irons for leaving dinghy without permission

C. F. Lenyon
Ensign U. S. N.

From 4 to 8 P.M.
Clear and pleasant. Light airs from S by E. and South with calms. Engaged making preparations for rear Hoisted smoke stack. The steamers came in and anchored and two left harbor. C. A. Langdon P.M, was found to have left the ship without permission and is declared a deserter from this date.

D. F. Walling
Clerk U. S. N.

From 8 P.M. to Midnight
Clear and pleasant. Foggy around horizon. Light airs from W. S.W. Bright moonlight. Commenced to swing to the tide at 11.30 o'clock.

T. J. Loomis
Ensign U. S. N.

Examined and found to be correct.

A. T. Williams.
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Anchor off Gibraltar, Spain

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a								
1				North	N. N. W.	1			30.216	61	58			b.f.	nme	10	S
2				"	"	0-1			30.206	56	58			"	"	10	"
3				"	"	1			30.206	46	58			"	"	10	"
4				"	"	1			30.206	35	54			"	"	10	"
5				N by W.	"	1			30.206	35	54			"	"	10	"
6				N. by E.	N by E.	1			30.196	36	58			o.c.	cum	4	"
7				"	"	1			30.206	35	61			"	"	6	"
8				"		1			30.216	36	59			b.cum.	cir. cum	4	"
9				W. by S.	N. E. by E.	1			30.206	46	53			b.c.	"	9	"
10	1	8	1.8	E by E 3/4 E.	East	1			30.266	66	64			"	"	9	"
11	4	6	9.4	E by E 3/4 E.		1-2			30.266	66	64			"	"	9	"
Noon.	4	2	16.9	"	E by S	2			30.269	70	66			"	"	9	"

Pg. 794 N 36°-07 W 5°

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "; Longitude by D. R. ° ' "; Latitude by observations of ⊙ N 36 ° 07 "; Longitude by chronometer from Forenoon Observations of ⊙ W 5 ° 00 "

Pg 794

Position at 8 a. m.: Latitude by ° ' "; Longitude by ° ' "

Position at 8 P. M.: Latitude by D. R. N 36 ° 07 "; Longitude by Chro P. M. W 3 ° 31 "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 4h P.M. " E by E 3/4 E W 16 ° 34 "

Water expended during the preceding 24 hours, 270 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1830 "

Coal consumed during the preceding 24 hours, 3 tons 1940 lbs.

Coal remaining on hand at Noon, 121 " 2005 "

P. M.													
1	4	6	25.1	E. by E 3/4 E.	E by S.	1	30.24	70	70	65	70	b.cum.	cir cum	9	S
2	4	6	33.5	"	E by S	1-2	30.23	70	70	66	72	"	"	9	"
3	4	5	41.4	"	"	1-2	30.21	70	70	66	72	"	"	9	"
4	4	5	50.2	"		1	30.21	70	70	66	72	"	"	9	"
5	8	0	59.0	"	S E.	1	30.22	71	70	65	72	"	"	9	"
6	8	0	68.9	"	E by S	1	30.22	24	70	65	71	"	"	9	"
7	8	5	76.8	"	E. S. E.	1	30.23	72	68	66	71	"	"	9	"
8	8	5	85.3	"	"	1	30.23	72	68	66	66	"	"	9	"
9	4	4	90.2	"	"	1	30.25	71	67	65	66	b.c.	cum	8	"
10	4	8	98.8	"	Calm	0	30.26	70	68	66	65	"	"	8	"
11	0	8	104.4	E 1/4 S.	"	0	30.26	70	68	66	66	"	"	8	"
Mid.	8	0	10.8	"	"	0	30.26	70	67	66	66	"	nme	10	"

under the command of Commander T. F. Jewell, U. S. Navy,

Saturday October 9th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Cutie & G. M.
Foggy. Light airs from N.

From 4 to 8 A.M.

Hugh Rodman
Ensign U. S. N.

Clear and pleasant. Light breeze from N. by E. Received on board and issued to crew 150 lbs Fresh Beef 150 lbs Vegetables and 120 lbs Fresh Bread. At 4.15 started fires under boilers 1, 2, 3, 4, 5 and 6. W. Gourley, Lds, returned on board.

From 8 A.M. to Meridian

P. D. Walling
Lieut U. S. N.

Clear and pleasant. Light breeze from East and E. by S. At 9.15 got underway. Steamed out of harbor. At 9.55 mustered quarters and secured battery for sea. Ships draft fwd 14', amid 15', aft 16'. At 9.58 hove taut patent log registering 0. and took departure Europa Point bearing (pc) N. by E. 1/4 E., distant 1/8 mile. At end of watch under steam alone. Course E. S. E. 3/4 E. Steam 55 lbs. Revolutions 46. Pay Clerk Vinton left the ship having resigned.

From Meridian to 4 P.M.

C. A. F. Johnson
Ensign U. S. N.

Clear hazy and pleasant. Light airs to light breeze from E. by S. Sea smooth. By order of Comdg Officer P. Mitzel, Lds, was rated Carpenter's Mate from date. Steam 49. Revolutions 45.

From 4 to 8 P.M.

E. D. Galloway
Lieut U. S. N.

Clear and pleasant. Light airs from E. S. E. Bright moonlight. Smooth sea. Underway steam alone on course E. S. E. 3/4 E. Passed a steamer and felucca standing to W. By order of Comdg Officer C. Lewis Mate A. was rated Equipt Yeo U. S. Swimming Tub, Master at Arms.

From 8 P.M. to Midnight

P. D. Walling
Lieut U. S. N.

Clear and pleasant. Bright moonlight. Calms and light Easterly airs. UnderSteam alone. At 9 sighted Alboran Light bearing S. by E. 3/4 E. At 10.55 Alboran Light bore on starboard beam when changed course to E. 1/4 S. Patent log 106.6. Set clock ahead 25 minutes. Steam 50 lbs. Revolutions 45.

C. A. F. Johnson
Ensign U. S. N.

Examined and found to be correct.

A. T. Wadhams
Asst and Navigator.

LOG of the UNITED STATES Steamer "Essex", 2d Rate,

At Sea making passage to Malta.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a								
1	7	8	24.0	E. 1/4 S.	E. by S.	1			30.24	70	67	65	69	b.cu.	Cir	9	S.
2	7	5	31.9	"	"	2			30.24	70	68	65	69	"	" Str	9	"
3	7	6	39.9	"	"	1			30.23	70	68	66	69	"	"	9	"
4	7	5	44.9	"	"	1			30.22	70	68	66	69	"	"	7	"
5	8	0	56.0	"	S.S.W.	2			30.23	69	68	67	69	"	"	8	"
6	8	4	64.2	"	S.W. by W.	2			30.23	69	68	67	69	"	"	7	"
7	8	4	72.6	"	"	2			30.24	69	68	67	69	b.c.	"	7	"
8	8	4	80.8	"	"	2			30.26	70	68	67	69	"	"	6	"
9	7	6	89.4	E. by E. 3/4 E.	"	2			30.26	70	71	69	69	"	Cir Cumu	6	"
10	8	4	97.8	"	"	2			30.26	70	72	70	70	"	"	6	"
11	7	1	49	"	"	1			30.27	72	72	70	73	"	"	8	"
Noon.	7	0	11.9	"	"	2			30.27	72	72	69	72	"	"	8	"

Course and distance made good since preceding noon by observations, E. 1/4 N. 197 knots. tenths.

Position at Noon:
- Latitude by D. R. — N 36 ° 33. "
- Longitude by D. R. — W 1 ° 01. "
- Latitude by observations of ⊙ — N 36 ° 36. " (Dy. 794)
- Longitude by chronometer from Forenoon Observations of ⊙ — W 1 ° 6. "

Position at 8 a. m.
- Latitude by D. R. — N 36 ° 23. "
- Longitude by Chro do do do — W 1. ° 46. "

Position at 8 P. M.
- Latitude by D.R. — N 34 ° 00. "
- Longitude by Chro P. M. do do — W 0 ° 04. "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 4h 4m P.M. " E. N. E. W. 15 ° 21. "

Water expended during the preceding 24 hours, 32/5 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1455 "

Coal consumed during the preceding 24 hours, 10 tons 1760 lbs.

Coal remaining on hand at Noon, 111 " 791 "

P. M.														
1	7	0	19.9	E. by E. 3/4 E.	East	0-1		30.26	72	72	69	72	b.c.	Cir Cumu	8	S.
2	7	4	26.6	"	"	0-1		30.25	73	73	70	73	"	"	8	"
3	6	4	33.3	"	"	1		30.24	73	73	70	74	"	"	8	"
4	6	4	40.2	"	N. E.	1		30.24	73	73	70	74	"	"	8	"
5	6	3	44.4	"	N. E. by N.	2		30.24	73	72	69	72	"	Cir	8	"
6	6	1	54.3	"	East	2-3	0	30.25	74	72	69	72	b.cu.	"	8	"
7 (Dy. 1010 N 37°.02 E 0°)	6	0	61.0	"	N. E. by N.	3	0	30.26	74	72	69	72	b.c.	Cir Str	8	"
8	6	0	67.4	"	E. by N.	2	0	30.27	74	74	69	72	"	"	8	"
9	6	6	74.0	"	E. N. E.	2		30.27	74	74	69	72	"	"	8	"
10	6	5	80.5	"	"	2		30.28	74	75	69	72	"	"	8	"
11	6	5	87.0	"	"	2		30.29	74	76	69	72	"	"	8	"
Mid.	6	5	93.0	E. 1/2 N.	"	2		30.29	76	73	70	72	"	"		

under the command of Commander T. F. Jewell, U. S. Navy,

Sunday October 10th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Unto 4 A. M.

Clear hazy and pleasant. Calms and light airs from E. by S. Smooth sea. Moon set at 3h 0m. At 3h 45m Cape de Gata Light-ho in sight from hoisting cross-trees bearing about N. N. E.

C. D. Galloway
Lieut U. S. N.

From 4 to 8 A. M.

Fine weather. Light breeze from S. S. W. to S. W. by W. Under steam alme. A number of steamers and sailing vessels in sight. At daylight high land on port beam and Cape de Gata bearing at 6h 0m from aloft, about North.

H. C. Gearing.
Lieut U. S. N.

From 8 A. M. to Meridian

Clear and pleasant. Light airs and breezes from S. W. by W. At 8.00 changed course to E. N. E. 3/4 E., patent log reading 88.4. At 10:25 set clock ahead fifteen minutes. Made Fore and aft sail at 8:20; took it in at 9.00. Four sails in sight at end of watch. At 9:45 Divine Officer inspected ship with crew at quarters. At 10:10 held Church Service on quarter deck.

B. F. Waring
Lieut U. S. N.

From Meridian to 4 P. M.

Clear and pleasant. Calms and light airs from East during last hour light breeze from N. E. Under steam, alme. Course E. N. E. 3/4 E. At 1h 0m hauled fires under boilers 2 and 4, on account of leaky tubes. Steam 50 lbs. Revolutions 36.

C. A. T. Ferguson
Ensign U. S. N.

From 4 to 6 P. M.

Clear, mild and pleasant. Light to gentle breeze from N. E. and E. N. E. Smooth sea. Light bank of clouds, alm'g horizon to North and West. Steam 56. Revolutions 37.

C. D. Galloway
Lieut U. S. N.

From 6 to 8 P. M.

Fair weather. Gentle decreasing breeze from N. E. by N. to E. by N. Moonlight. Smooth sea. At 7h 0m passed a steamer bound W. Steam alme. Course E. N. E. 3/4 E. Patent log at 8h 6 4/4.

H. C. Gearing
Lieut U. S. N.

From 8 P. M. to Midnight.

Clear and pleasant. Light breeze from E. N. E. Smooth sea. Passed a steamer standing to W., steering a course E. N. E. 3/4 E. Under steam, alme. At 11.45 changed course to E. 1/2 N., patent log reading 88.4. Bright moonlight.

Hoisted fires in boilers 1 and 3 for distilling.

B. F. Waring
Lieut U. S. N.

Examined and found to be correct.

A. T. Mahan
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

at Sea making passage to Malta,

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a						cum		
1	6	2	.2	E. ½ N.	E. N. E.	2			30.28	4	5	4	69	b.c.	str	4	g
2	6	8	7.0	"	"	2			30.28	4	5	4	69	"	"	7	"
3	6	8	14.8	"	"	2			30.28	4	5	4	69	"	"	8	"
4	7	0	22.2	"	N. E.	2			30.26	4	3	4	69	"	"	8	"
5	7	0	29.8	"	"	3			30.24	4	2	4	70	"	cir	6	"
6	6	9	36.2	"	"	2-3			30.24	4	2	4	69	"	cir cum	3	"
7	6	4	44.	"	East	3-4			30.28	4	2	4	69	"	str	1	"
8	6	2	50.4	"	"	4			30.32	4	2	4	68	b.ch.	"	1	"
9	6	0	56.8	"	E. by N.	4	0		30.33	4	2	4	69	b.c.	"	4	"
10	5	8	62.6	"	East	3	0		30.35	4	3	4	69	"	"	6	"
11	4	2	66.8	"	"	3	0		30.34	4	3	4	69	"	str cir str	8	"
Noon.	4	3	71.1	E. N. E. ½ E.	"	3	0		30.35	4	3	4	69	"	cir cum	8	"

Course and distance made good since preceding noon by observations, E. N. E. 155 knots. tenths.

Position at Noon:
- Latitude by D. R. — N 34 . 34. "
- Longitude by D. R. — E 2 . 02 "
- Latitude by observations of ⊙ — N 34 . 34. "
- Longitude by chronometer from Forenoon Observations of ⊙ — E 1 . 54 "

Pg. 1000

Position at 8 a. m.
- Latitude by D. R. — N 34 . 24 "
- Longitude by Chron — E 1 . 24 "

Position at 8 P. M.
- Latitude by D. R. — N 34 . 48. "
- Longitude by Chron & Mer — E 2 . 20. "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head — ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " — ° ' "

Variation of the Compass by Azimuth ⊙ observed at 4h 13m " E by N. — W 14 . 44. "

Variation of the Compass by Azimuth ⊙ observed at " — ° ' "

Water expended during the preceding 24 hours, 3[illegible] gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1080 "

Coal consumed during the preceding 24 hours, 4 tons 340 lbs.

Coal remaining on hand at Noon, 103 " 2191 "

P. M.																
1	5	6	79.4	N. ½ W. E. N. E. ½ E.	E. N. E.	3		30.33	4	3	4	68	4/3	b.c.	air cum	8	g
2	6	0	85.4	"	"	3		30.32	4	3	4	69	4/3	"	"	8	"
3	1	3	86.4	"	"	3		30.32	4	3	4	69	4/3	"	"	9	"
4					"	2		30.32	4	3	4	69	4/3	"	"	9	"
5			87.0	E. N. E.	"	2		30.33	4	4	4	69	4/3	"	cum	9	"
6	3	0	92.4	E. by N.	E. by N.	2		30.34	4	4	4	69	4/3	b.c.w	air cum	8	"
7	5	9	98.3	"	"	3-4		30.36	4	4	4	69	4/3	b.c.	"	7	"
8	5	8	104.2	"	E. by S.	3-4		30.38	4	4	4	69	4/2	"	"	7	"
9	5	8	10.0	E. by S.	"	3	0	30.38	4	4	4	69	4/2	"	"	7	"
10	5	8	16.6	"	"	3	0	30.39	4	4	4	69	4/2	"	"	8	"
11	6	0	23.0	"	"	2	0	30.39	4	3	4	69	4/2	"	"	6	"
Mid.	5	8	29.0	"	"	2	0	30.38	4	3	4	69	4/2	"	"	8	"

under the command of Commander T. F. Jewell, U. S. Navy,

Monday October 11th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From Meridian and until 4 A. M.

Clear and pleasant. Greater part of watch. Bright moonlight. Guiding over towards end of watch. Light breze from E. N. E. and North. at 3.15 set Fore and aft sail. Course E. 1/2 N. Steaming. Revolutions 46. Pressure 39.

A. F. Leachley
Ensign U. S. N.

From 4 to 8 A. M.

Fair and pleasant first part. Gentle breze from N. E. Overcast with moderate and increasing breze from East latter part with light passing shower at 6.00 took in Fore and Aft Sail. Steam 44. Revolutions 39.

E. D. Galloway
Lieut U. S. N.

From 8 A. M. to Meridian.

Clear and pleasant. Gentle breze from E. by N. and East. Smooth sea. Steady barometer. At 9.30 quarters for muster. Second division exercised at great guns. Tested flood cocks of Magazine, Shell and Gun Cotton Rooms and found them in working order. First division firing at target hung from fore yardarm with Hotchkiss Magazine Gun. At 10 passed a brig working to E. At 11.40 changed course to E. N. E. 1/2 E, patent log reading 6.9. At 12, patent log 7.2.

N. le Seaning.
Lieut U. S. N.

From Meridian to 4 P. M.

Clear and pleasant. Light to gentle from E. N. E. At 12.05 took in Fore and aft sail and put ship on course E. N. E. 1/2 E. Commenced division at target practice at 1.05, target on fore yard arm. Put port broadside gun to bear at 3.00 and trained it across target. At 3.20 hauled in patent log and steamed round stern target it having carried away from tow-line. At end of watch swinging ship with port battery. Passed a steamer standing to S. and W.

D. T. Woolsey
Lieut U. S. N.

From 4 to 8 P. M.

Clear and pleasant. Light breze from E. N. E. At 5.00 finished swinging ship and started ahead on course E. N. E. At 5.30 changed course to E. by N. At 6.10 started distiller. Underway and alone. Steam 53. Revolutions 50. Expended 6 6 pounds Cartridges.

A. F. Leachley
Ensign U. S. N.

From 8 to 8 P. M.

Clear and pleasant. Moderate breze from E. by S. Sea smooth. At 8.00 changed course to E. by S.

E. D. Galloway
Lieut U. S. N.

From 8 P. M. to Midnight.

Clear and pleasant. Gentle decreasing breze from E. by S. Bright moonlight. Sea smooth. Steam alone. Steering course E. by S. Patent log at midnight 29.0.

H. le Seaning.
Lieut U. S. N.

Examined and found to be correct.

A. V. Wadhams.
Lieut U. S. N. Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to Malta

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a								
1	6	9	35.9	E. by S.	East	2			30.34	43½	40	42		b.c.	cir cumr	9	S.
2	4	2	43.1	"	"	2			30.36	42½	40	42		"	"	9	"
3	4	2	50.3	"	"	2			30.34	42½	40	42		"	"	9	"
4	4	0	54.3	"	"	2			30.32	42½	40	42		"	"	8	"
5	4	0	64.4	"	"	2			30.32	42½	40	64	62	"	"	8	"
6	4	0	74.4	"	"	2			30.32	42½	40	64	62	"	"	6	"
7	4	2	48.6	"	"	2			30.32	41½	40	65	63	"	"	6	"
8	4	2	85.6	"	"	2			30.33	40½	40	65	62	"	"	6	"
9	6	8	92.2	"	"	2			30.35	42½	42	65	62	"	"	6	"
10	4	2	100.	"	"	2			30.35	42½	42	65	62	"	"	8	"
11	5	4	105.3	"	"	2			30.35	42½	43	66	62	"	"	8	"
Noon.	4	0	112.4	"	"	2			30.36	43½	43	66	62	"	"	8	"

Course and distance made good since preceding noon by observations, E. 3/4 N. 178 knots. tenths.

Position at Noon:
- Latitude by D. R. — N 34 .51. "
- Longitude by D. R. — E 4 .24. "
- Latitude by observations of ⊙ — N 34 .52. "
- Longitude by chronometer from Forenoon Observations of ⊙ — E 4 .33. "

Dy. 1000

Position at 8 a. m.
- Latitude by D. R. — N 34 .51. "
- Longitude by Chro do do do — E 3 .58. "

Position at 8 P. M.
- Latitude by D. R. — N 34 .56. "
- Longitude by Chro P.M. do do — E 5 .50. "

Current during the time, knots 2 tenths per hour, setting to the East

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head — ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " — ° ' "

Variation of the Compass by Azimuth ⊙ observed at 4h 56 " E by S. — Var 14 .17. "

Variation of the Compass by Azimuth ⊙ observed at " — ° ' "

Water expended during the preceding 24 hours, 345 gallons.

Water Distilled during the preceding 24 hours, 890 "

Water remaining on hand fit for use at Noon, 1600 "

Coal consumed during the preceding 24 hours, 8 tons 410 lbs.

Coal remaining on hand at Noon, 95 " 1781 "

P. M.														
1	0 6	4	19.5	E by S E ½ S	E. S. E.	1	0	30.33	43	66	43	b.c.	cir rst	9	S.
2	4	0	27.	"	E by S.	1	0	30.31	43	66	44	"	"	9	"
3	4	2	34.9	"	E S E	1	0	30.30	42	65	44	"	nine	10	"
4	4	2	42.4	"	E by S.	2	0	30.28	43	65	44	"	"	10	"
5	4	4	49.6	"	"	2		30.26	43	65	43	b.c	cir	9	"
6	4	0	57.3	"	"	2		30.26	43	66	43	"	"	9	"
7	4	0	65.2	"	"	2		30.26	42	65	43	"	"	9	"
8	4	0	72.5	"	"	2		30.24	42	65	43	"	cir rst	9	"
9	4	0	80.	"	S E by E	3		30.25	43	65	43	"		9	"
10	4	0	87.1	"		3		30.22	42	64	42	"	"	6	"
11	4	2	94.4	"	S E	3		30.21	42	65	42	"	"	6	"
Mid.	4	2	101.5	"	"	3		30.19	41	65	42	"	"	6	"

Dy. 1001
N 87°-85
E 5°

under the command of Commander T. T. Jewell, U. S. Navy,

Tuesday October 14th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends at 4 A.M.
Clear and pleasant. Light breeze from East. Smooth sea. Bright moonlight. Under steam, alme, course E. by S. Revolutions 60. Steam 50 lbs.

P. H. Darling
Asst Surg U.S.N.

From 4. to 8. A.M.
Clear and pleasant. Light breeze from E. by S. Last half of watch, moderate swell from N.E. Under steam, alme. Sighted Light. Course E by S. Steam 50. Revolutions 60.

W. T. Dennison
Ensign U.S.N.

From 8. A.M. to Meridian.
Clear and pleasant. Fresh breeze from East. At 9.30 quarters. Divisions exercised rifles, 3d Div. rifles. At 10.40 began target-practice with magazine rifle with iron target hanging from fore yard, range about 50 yards. Cleared decks with two duty crews from N.E. fog up, and set fitted infantry equipments.

E. D. Galloway
Ensign U.S.N.

From Meridian to 4. P.M.
Fine weather. Light airs and light breeze sprung up last hour from E by S. Smooth sea. Steam, alme. Continued target-practice, target in fore yard with Engineers, Powder and Navigators Divisions. At 12.06 changed course to E. ¼ S. Patent log at 4, 45.4.

H. L. Gearing
Lieut U.S.N.

From 4. to 6. P.M.
Clear weather. Light breeze from E by S. On course E. ¼ S. Under steam, alme. Light swell from N.E. Sighted a sailing vessel standing to S. Distilling. Steam 50. Revolutions 41. Expended 8 Blank Cartridges Sal 40.

P. H. Darling
Asst Surg U.S.N.

From 6. to 8. P.M.
Pleasant. Bright moonlight. Light breeze from E by S. Under steam, alme. Course E. ¼ S. Distilling. By order of Commander placed U. B. Emmons L.T. in solitary confinement for two days for disobedience of orders.

W. T. Dennison
Ensign U.S.N.

From 8. P.M. to Midnight
Clear and pleasant. Gentle breeze from E by S. bearing to S.E. at 8.30 set jib. At 9.30 set fore and aft sails. Bright moonlight. Smooth sea. Gentle swell from N.E. Distilling.

E. D. Galloway
Asst Surg U.S.N.

Examined and found to be correct.

S. V. Wood Jagers.
Lieut U.S.N. Navigator.

LOG of the UNITED STATES Steamer "Essex" 3d Rate,

At Sea making passage to Malta.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a								
1	4	0	108.9	E. 1/2 S.	S. S. E.	3	0		30.18	64	70	65 1/2		b.	nmc	10	9
2	4	2	116.5	"	"	3	0		30.15	64	70	65 1/2		"	"	10	"
3	4	4	124.5	"	"	3	0		30.13	64	70	64 1/2		b.c.	cir str	9	"
4	4	4	32.3	"	"	3	0		30.12	64	69	64 1/2		"	cir cmu	4	"
5	4	8	40.1	"	"	3			30.12	64	69	64 1/2		"	"	8	"
6	8	2	48.3	"	"	3			30.10	64	69	64 1/2		"	"	8	"
7	4	9	56.2	"	"	3			30.10	64	69	64 1/2		"	"	8	"
8	4	4	64.6	"	"	3			30.10	64	70	65 1/2		"	"	8	"
9	4	0	72.6	"	"	3			30.11	64	70	66 1/2		"	"	8	"
10	4	0	82.0	"	"	3			30.11	64	70	66 1/2		"	"	8	"
11	8	3	88.0	E. S. E.	South	3			30.11	64	70	68 1/2		"	"	9	"
Noon.	8	0	93.9	"	"	3			30.11	64	70	64 1/2		"	"	9	"

Course and distance made good since preceding noon by observations, E. 1/2 N 17 8

		knots	tenths.
Position at Noon:	Latitude by D. R.	N. 38	0.4 "
	Longitude by D. R.	E. 8	0.2 "
Dg. 1001	Latitude by observations of ⊙	N. 38	0.9 "
	Longitude by chronometer from Forenoon Observations of ⊙	E. 8	0.1 "
Position at 8 a. m.	Latitude by D. R.	N. 38	0.1 "
	Longitude by Chro do do do	E. 4	0.3 "
Position at 8 P. M.	Latitude by D. R.	N. 34	0.4 "
	Longitude by Chro P. K. do do	E. 9	0.3 "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at ° ' "

Variation of the Compass by Azimuth ⊙ observed at 8h a. m. " E. 1/2 S. W 12 0.7 "

Water expended during the preceding 24 hours, 345 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1200 "

Coal consumed during the preceding 24 hours, 10 tons 100 lbs.

Coal remaining on hand at Noon, 85 " 1681 "

	Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
P. M.																		
	1	7 6	0	104.0	E. S. E. by E.	S. W.	3			30.10	64	72	66 1/2		b.c.	cir str	9	8
	2	8	0	112.2	"	"	3			30.08	64	72	66 1/2		"	cmu	6	"
Dg. 1002	3	4	9	120.6	"	West	3			30.08	63	72	66 1/2		"	"	5	"
N 37°-55' E 10	4	8	0	128.4	"	W. N. W.	3			30.08	63	72	68 1/2		"	"	3	"
	5	8	0	36.8	"	N. W. by W.	3			30.08	64	70	67 1/2		"	cir str	3	"
	6	8	0	44.9	"	N. W. by N.	4			30.09	65	69	69 1/2		"	"	4	"
	7	9	1	52.0	"	"	4			30.10	65	73	70 1/2		"	"	4	"
	8	9	1	63.1	"	"	4			30.11	65	69	69 1/2		"	"	4	"
	9	8	5	72.3	"	"	3-4			30.11	65	72	70 1/2		"	"	7	"
	10	8	8	81.1	"	"	4			30.11	65	72	70 1/2		"	"	7	"
	11	8	6	89.7	S. E. by E. 1/2 E.	"	4			30.11	66	73	70 1/2		"	cir cum	6	"
	Mid.	8	6	98.3	"	"	4			30.11	65	73	70 1/2		"	"	6	"

under the command of Commander T. F. Jewell, U. S. Navy,

Wednesday October 13th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commenced and Until 4 A.M.

Fine weather. Gentle breze from S.S.E. Bright-moonlight. Smooth sea. At 3 P.M. set foresail. Steering course E.½S. Distilling. Sail, at end of watch foresail, headsails, main topsail, Spanker and Gaff topsail. Patent-log at 4 P.M. 32.3 knots.

H.C. Fearing
Lieut-U.S.N.

From 4 to 8 A.M.

Clear weather. Gentle breze from S.S.E. at 4.10 took in foresail. Under steam and fore and aft sail, on course E.½S. Smooth sea. Distilling.

B. F. Wadsing
Lieut-U.S.N.

From 8 A.M. to Meridian

Clear and pleasant. Gentle breze from S.S.E. and South. Under steam and fore and aft sail. At 10, changed course to E.S.E. at 9.30 inspected, at quarters. Exercised at divisions great guns; 2d. Div. Infantry, 3d. Div. Single sticks and Powder div. Infantry. Engaged in setting up head stays. Stopped, distilling, at 10.15.

A.F. Fechteler
Ensign U.S.N.

From Meridian to 4 P.M.

Clear and pleasant. Gentle breze from S.W. veering to West, then W.N.W. At 2.15 set foresail at 3.40 hauled up foresail. At 1.35 sighted Galita Island, bearing S by E. 3/4 E. at end of watch Island fore S. 3/4 W. Sea smooth. Issued clothing.

E.B. Galloway
Lieut-U.S.N.

From 4 to 6 P.M.

Fine weather. Gentle to moderate breze from N.W. by W. and N.W. Crapenoch set up fore and main stays and backstays and jib and flying jib stays. At 4.45 sighted a peak of high land bearing S.E. (Cape Bm.). At 5 P.M. made sail to 7 knot sails. At 5.15 Galita Island abeam, distant 21.5 knots. Course S.E. by E. At 6 P.M. patent-log read 44.9. Distilling.

H.C. Fearing
Lieut-U.S.N.

From 6 to 8 P.M.

Clear and pleasant. Moderate breze from N.W. by N. Bright-moonlight. Hove to at 6.05. Under steam and topsails, topgallant-sails, foresail and jib. At 6.15 lost sight of Galita Island in the darkness bearing S.W.½W. (mag.) Steam 49. Revolutions 44. Course S.E. by E.

L.T. Washington
Lieut-U.S.N.

From 8 P.M. to Midnight

Clear and pleasant. Bright-moonlight. Moderate breze from N.W. by N. At 10.00 sighted Cani Rock Light, on starboard bow. At 10.30 Cani Light-house S.½E. Patent-log 84. At 12 P.M. Cani Light house S.W. 3/4 W. Patent-log 95.3. Under steam and topsails, topgallant sails foresail and jib. At 10 P.M. changed course to S.E. by E. At 10.45 changed course to S.E. by E.½E. At 10.45 changed course to S.E. by E.

A.F. Fechteler
Ensign U.S.N.

Examined and found to be correct.

A.K. Wadhams
Lieut and Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

At Sea making passage to Hatteras

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									@								
1	8	8	104.1	S.E. by E.	N.W.	5			30.12	74	74	70	72	b.c.	cir cumu	8	
2	8	8	115.9	"	"	5			30.11	74	73	70	72	"	clr	"	
3	8	4	125.4	"	"	5			30.11	74	73	70	72	"	"	"	
4	9	0	132.4	"	"	5			30.10	74	72	70	72	"	"	"	
5	8	4	41.4	"	"	5	0		30.09	74	72	70	72	"	"	"	
6	8	4	50.	"	W.N.W.	5	0		30.09	74	72	70	72	"	cumu clr	"	
7	8	9	58.5	"	"	5	0		30.10	74	72	71	72	"	cir cumu	"	
8	9	2	67.4	"	W. by S.	5-6	5		30.11	73	72	70	73	C	"	"	
9	9	2	76.6	"	W.N.W.	5			30.12	74	72	70	74	"	"	"	
10	9	1	85.4	"	"	5			30.13	74	72	70	74	"	"	"	
11	9	0	94.4	"	"	5			30.13	74	73	71	74	"	"	"	
Noon.	5	4	100.4	"	"	5			30.10	74	73	71	74	"	"	"	

Course and distance made good since preceding noon by observations, E.S.E. 202 knots tenths.

Dy. 1002

Position at Noon:
- Latitude by D. R. — N 36 . 50, "
- Longitude by D. R. — E 12 . 15, "
- Latitude by observations of ⊙ by bearings of Currituck Pt. Light N. Currituck Pt. Lt. Pamlico Island — N 36 . 53, "
- Longitude by chronometer from Forenoon Observations of ⊙ 10. 00. — E 12 . 12, "

Position at 8 a. m.
- Latitude by D. R. — N 37 . 08, "
- Longitude by D. R. — E 11 . 37, "

Position at 8 P. M.
- Latitude by " — N 36 . 22, "
- Longitude by " — E 13 . 38, "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head — ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " — ° ' "

Variation of the Compass by Azimuth ⊙ observed at " — ° ' "

Variation of the Compass by Azimuth ⊙ observed at " — ° ' "

Water expended during the preceding 24 hours, 376 gallons.

Water Distilled during the preceding 24 hours, 1075 "

Water remaining on hand fit for use at Noon, 1900 "

Coal consumed during the preceding 24 hours, 10 tons 320 lbs.

Coal remaining on hand at Noon, 75 " 1361 "

P. M.																	
1	8	8	9.0	S.E. by E.	W.N.W.	4			30.11	74	72	73	71	74	b.c.	cir cumu	6	S.
2	8	6	17.4	"	N.N.W.	4			30.10	74	73	73	71	74	"	"	4	"
3	8	6	25.6	"	"	4			30.10	74	73	74	71	74	"	"	8	"
4	8	4	33.8	"	"	4			30.10	74	73	74	71	74	"	"	6	"
5	8	0	41.8	"	"	4			30.10	74	73	73	70	73	"	"	3	"
6	7	6	49.8	"	"	3-4			30.10	74	74	74	70	73	"	"	5	"
7	7	8	58.0	"	"	3	0		30.11	74	74	74	71	72	"	"	5	"
8	7	6	65.9	"	"	3	0		30.11	76	74	74	71	72	"	"	7	"
9	7	7	73.6	S.E. by E. 1/2 E.	"	3			30.11	74	74	74	71	72	"	"	7	L.
10	8	4	82.0	"	N.W.	3			30.11	74	74	73	70	72	"	"	3	"
11	7	4	88.9	S.E.	"	3			30.11	74	74	73	70	72	cum mid	cum mid	3	"
Mid.	8	1	93	"	"	3			30.11	76	73	70	72	"	"	"	4	"

under the command of Commander T. F. Jewell, U. S. Navy,

Thursday October 14th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Ends 4 A. M.

Clear and pleasant. Moderate to stiff breze from N. W. Smooth sea. At 12. 40 lost sight of Cape Light. At 2.15 got cast with Thomas's machine, no bottom at 240 fms. At 2.30 sights Cape Bon light bearing S. S. E. 3/4 E. (pc). At 4 do Cape Bon bore (pc) S. by W. Set and square sails except mainsail and royals. Bright moonlight.

D. D. Galloway
Lieut U. S. N

From 4 to 8 A. M.

Pleasant weather. Clouding over last hour. Stiff to fresh breze from N. N. W. to W. by S. At 5 do Cape Bon Light bore S. S. W. 3/4 W. when stopped engines and got a cast in 56 fms, bottom of broken shell. At 5.50 Cape Bon Light bore S. W. by W. 3/4 W. High land in sight back of Cape Bon at daylight. Passed two steamers standing to W. and several sailing vessels. Patent log at 8. 6 4/4.

J. H. Gearing
Lieut U. S. N

From 8 A. M. to Midnight.

Cloudy, rainy appearances. Stiff breze from W. N. W. Light-N. Ely sweel. At 8.30 made high land of Pantellaria Id as rain squall passed away. Bearing (mag) S. E. 1/2 S. At 9 same point bore S. E. 1/4 S. At 10 Pantellaria light house bore S. by E. (mag), patent log 85. At 9.30 mustered and inspected at quarters. Exercised Engineers and Gs. Div at rifles; Bowen Div. Infantry (School of the Soldier); 2d and Navigators Divisions at Single Sticks. 1st Div at Infantry. At 10.15 took in main topsail and main top gallant Sails. Set up main rigging. At 10.48 light-House bore abeam, distant 6.6 miles. (mag) S. W by S. At 11.05 it bore W. by S. Bearings at Meridian. Pantellaria Id. Lt House W. 1/2 S. High Peak W. S. W. Eastern extremity Pantellaria Id S. W. by W. At 11.11 set clock ahead nineteen (19) minutes. Passed four steamers standing to N. and W. Lights, a barque standing to S. and E. Ship rolling 8 to 10°. Steering a course S. E. by E.

D. D. Gearing
Lieut U. S. N

From Meridian to 4 P. M.

Clear and pleasant. Gentle to moderate breze from N. N. W. Under steam and square sails to Topgallant sails, in fore and Jib. Engaged in setting up main rigging. Course S. E. by E.

A. T. Dowlin
Ensign U. S. N

From 4 to 6 P. M.

Cloudy and pleasant. Gentle to moderate breze from N. N. W. at 4.40 sounded clear. General vessels in sight at close of watch. Sea smooth. Distilling.

E. D. Galloway
Lieut U. S. N

From 6 to 8 P. M.

Clear and pleasant. Gentle breze from N. N. W. Smooth sea. Hove to, at 6.40. Passed a steamer and barque bound W. Distilling. Under steam, foresail, fore topsail, fore topgallant sail and jib. Course S. E. by E. By order of Cmdg Officer released W. C. Cummings L. T. from confinement at 8 changed course to S. E. by E. 1/2 E.

H. Gearing
Lieut U. S. N

From 8 P. M. to Midnight

Clear and pleasant. Gentle breze from N. N. W. and N. W. Occasional light sprinkle of rain. At 9.45 made Joz Lt. Ho bearing S. E. 1/2 E. At 10.10 changed course to E. S. E. and set main topsail and tgallt sail. At 10.20 hauled all fires. Sights six steamers and one brigantine. At end of watch Joz Lt. Ho bore S. E. 1/2 E. Under Jib, topsails, tgallsails and foresail on course E. S. E.

Examined and found to be correct.

P. F. Harris
Lieut U. S. N

A. T. Williams.
Lieut-
Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

at Sea making passage to Malta.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									@								
1	3	6	96.4	E.S.E.	N.W.	4			30.10	4/4	72	70	72	b.c.	cir-cumu	4	S.
2	4	4	101.0	"	"	4			30.10	4/4	72	70	72	"	"	4	"
3	5	3	106.4	"	"	4+			30.06	4/3	72	69	72	o.c.	cumu-nimb.	2	"
4	2 5	5	12.	S.E. by S.	"	4+			30.06	4/3	72	69	72	b.c.	"	2	"
5	5	0	117.	"	"	4			30.06	4/3	72	68	72	o.c.	"	0	"
6	6	0	231.	S. by W.	"	4			30.04	4/2	72	66	74	b.c.	cir-cumu	3	"
7				Ship's Head	"	4			30.06	4/3	71	66	72	"	"	4	"
8				N.W. by W.	"	4			30.08	4/2	71	66		"	cumu	0	"
9				"	N.W. by W.	2			30.10	4/2	71	66		"	cir-cumu	2	"
10				"	"	2			30.10	4/3	72	66		"	"	2	"
11				"	"	2			30.10	4/3	73	66		"	"	3	"
Noon.				"	"	2			30.10	4/3	73	66		p.c.	"	1	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 325- gallons.

Water Distilled during the preceding 24 hours, 200 "

Water remaining on hand fit for use at Noon, 2600 "

Coal consumed during the preceding 24 hours, 5 tons 1620 lbs.

Coal remaining on hand at Noon, 69 " 1981 "

P. M.		Ship's Head.							
1		N.W. by W.	N.W. by W.	2	30.08	4/3	4/3	68	b.c. cir-cumu 0 S.
2		W. by N.	W. by N.	3	30.08	4/3	4/3	68	" " 0 "
3		N.W. by N.	N.W. by N.	3	30.08	4/3	4/3	68	" " 0 "
4		W. by N.	W. by N.	2	30.08	4/3	4/3	4/1	" " 2 "
5		N.W. by N.	N.W. by W.	2	30.08	4/3	4/3	4/1	" cumu-nimb 1 "
6		"	"	2	30.09	4/3	4/3	4/1	" " 1 "
7		W. by N.	"	2	30.09	4/2	4/0	68	" " 1 "
8		West	"	2	30.09	4/2	4/0	64	" " 0 "
9		W. by N.	W. by N.	1	30.10	4/2	4/0	66	b.c.d. cir-cumu 3 "
10		"	"	1	30.10	4/2	4/0	66	b.c. " 2 "
11		"	"	1	30.10	4/2	4/0	66	" " 9 "
Mid.		West	West	1	30.09	4/2	4/0	66	" " 8 "

under the command of Commander T. F. Jewell, U. S. Navy,

Friday October 15th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Unites H. A. M.

Cloudy. Moderate to stiff breze from N. W. At 1 00 Light-bore S. S. E. (Suc). Patent-log 9.4. At 3 00 it-bore S. S. W. Patent-log 10.4. Course S. S. E. until 3 30 when changed to S. E. ½ S. Patent-log 9.6. At 3 30 hauled up foresail. Under topsails, fore-sail & Jib.

A. T. Jewell
Ensign U. S. N.

From H. to 8 A. M.

Cloudy and pleasant. Very fresh breze from N. W. At 4 40 Sighted Valetta light bearing S. ¼ E. ¼ E. At 5 00 spread fires took in and sails except main topsail; and fit. At 6 00 changed course to S. ½ W. At 7 00 a large leak developed in boiler No 8 necessitating hauling of fires in boilers 6 and 8. At 7 40 moored to buoy No 2. Draft of ship 3 ft 9 in fd 4 ft 6 in.

C. D. Galloway
Asst Eng U. S. N.

From 8. A. M. to Meridian.

Cloudy, pleasant weather. Light-breze from N. W. by W. At 8 40 hauled fires from under boilers 1, 3, 5 and 7 and lowered smoke pipe. Received a preliminary visit of courtesy with customary offer of services from the Rear Admiral W. F. Ward R. N. Supt of Malta Dock Yard. Received official visits from Mr T. F. Worthington Consul and Mr C. B. Eyman, Vice-Consul of the United States in Malta. Placed J. F. Privitt Seaman &c. in irons in the quarter-deck for security of keeping by order of Commander Commanding. Commander Commanding left the ship at 11.40 to make official calls, in the Consul of Malta, the United States Consul and Rear-Admiral Ward R. N, Supt Dock Yard.

N. H. Goaning
Asst Eng U. S. N.

From Meridian to 4 P. M.

Cloudy weather threatening rain. Light to gentle breezes from W. N. W. to N. W. by N. English Troop-ship "Jelong" came in and anchored.

B. F. Waring
Asst Eng U. S. N.

From 4 to 8 P. M.

Cloudy and pleasant. Light-breze from N. W. by W. Sent a liberty party in shore.

N. H. Goaning
Asst Eng U. S. N.

From 8 P. M. to Midnight.

Clear and pleasant. Bright-moonlight-except first-hour when cloudy with light drizzle. English troop-ship "Jelong" left the harbor. Confined P. Torpey, P. M. in double irons for safe keeping.

B. F. Waring
Asst Eng U. S. N.

Examined and found to be correct.

T. T. Worthington
Lieut U. S. N. Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d. Rate,

Valetta, Malta.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				West	West	0-1			30.09	74	69	66		b.c.	cir	9	S
2				"	"	0-1			30.13	74	69	66		"	"	9	"
3				W. by S.	W. by S.	0-1			30.13	74	68	65		"	cirr	9	"
4				W. & W.	"	0-1			30.13	74	68	65		"	"	9	"
5				"	W. & W.	1			30.03	71	67	65		"	"	6	"
6				N.W. by W.	West	1			30.02	70	67	65		N.cd.	cum nmb	3	"
7				"	Calm	0			30.09	70	67	65		b.c.	cum str	4	"
8				"	S.W. by W.	0-1			30.02	71	68	66		"	"	6	"
9				N.W. by N.	"	1			30.02	72	71	66		"	"	6	"
10				W. by N.	N.W.	1			30.01	72	71	67		"	cir cum	5	"
11				"	"	1			30.01	73	73	69		"	"	4	"
Noon.				"	"	1			30.00	73	73	69		"	"	6	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: { Latitude by D. R. ° ' "
Longitude by D. R. ° ' "
Latitude by observations of ⊙ ° ' "
Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. { Latitude by ° ' "
Longitude by ° ' "

Position at 8 P. M. { Latitude by ° ' "
Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 325 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2150 "

Coal consumed during the preceding 24 hours, tons 500 lbs.

Coal remaining on hand at Noon, 69 " 1481 "

P. M.											
1	W. & W.	W. by S.	2	29.98	74	69	69	b.c.	cir cum	6	S
2	West	"	2	29.97	75	75	70	"	"	6	"
3	W. by S.	"	2	29.96	75	75	71	"	"	7	"
4	W. & W.	"	2	29.96	75	75	71	beg.	cir	6	"
5	S.W. by S.	S.W. by S.	2	29.96	75	74	71	"	"	6	"
6	"	"	2	29.94	76	73	71	"	"	6	"
7	S.W.	"	2	29.93	76	73	72	"	"	9	"
8	"	"	2	29.95	76	73	69	"	"	7	"
9	S.W. by S.	S.W.	1	29.90	76	73	69	b.c.	cir cum	5	"
10	"	"	1	29.90	78	73	69	"	"	2	"
11	"	"	1-2	29.89	78	73	70	"	"	2	"
Mid.	"	"	2	29.89	78	73	70	"	"	2	"

under the command of Commander T. F. Jewell, U. S. Navy,

Saturday October 16th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Latter 4 A.M.
Clear and pleasant. Bright moonlight. Light airs from West.

A.F. Fechteler
Ensign U.S.N.

From 4 to 8 A.M.
Light airs from West to S.W. by W. at 6.30 H.B.M.S. "Iris" made fast to buoy 3 in Grand Harbor and at 8 H.B.M. Troop-ship "Crocodile" entered the Harbor. At 7 H.B.M. Turret-ship "Orient" dropped from Dock Yard down to mooring in Grand Harbor. Received and issued for use of crew the usual ration of fresh bread, meat and vegetables.

N.L. Heaning.
Lieut. U.S.N.

From 8 A.M. to Meridian
Clear pleasant weather. Light airs from S.W. by W. and N.W. with calms. Sent an officer to pay official visit to H.B.M.S. "Iris." Cleaning ship. Sent an officer to pay official call upon Superintendent of the Dock Yard

N.L. Heaning
Lieut. U.S.N.

From Meridian to 4 P.M.
Clear and pleasant. Light breeze from W. Sent an officer to return call of Commander of H.M.S. "Iris."

A.F. Fechteler
Ensign U.S.N.

From 4 to 8 P.M.
Clear, pleasant weather. Light breeze from S.W. and S.W. by S. H.B.M.S. "Iris" and "Crocodile" left the harbor. H.B.M.S. "Cruiser" came in and made fast to buoy. By order of Cmdg Officer confined R. Fitzgerald, Ldr, for having liquor in possession to await further action in his case.

N.L. Heaning
Lieut. U.S.N.

From 8 P.M. to Midnight
Weather cloudy. Light breeze from S.W.

A.F. Fechteler
Ensign U.S.N.

Examined and found to be correct.

A.V. Wadhams.
Lieut. and Navigator.

"Essex"

LOG of the UNITED STATES , 3d **Rate,**

Valletta, Malta.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
				Ship's Head													
A. M.									a								
1				S.W. by S.	S.W.	2			29.87	47	43	40		b.cg.	cir cum str	4	S.
2				"	"	2-3			29.86	47	43	40		"	"	4	"
3				"	"	2-3			29.84	47	44	41		"	cir str	6	"
4				"	"	3-4			29.81	47	43	41		"	"	8	"
5				"	"	3-4			29.80	46	44	42		"	"	8	"
6				"	"	3			29.80	46	44	42		"	"	8	"
7				S.W.	"	3			29.80	45	44	42		b.c.	cir	8	"
8				S.W. by S.	"	3			29.80	46	46	43		"	"	8	"
9				S.S.W.	S.W. by S.	2			29.81	44	44	44		"	"	8	"
10				S.W. by S.	"	2			29.82	48	48	44		"	"	8	"
11				S.W.	"	2			29.82	49	49	44		"	"	9	"
Noon.				W.S.W.	"	2			29.83	80	80	44		"	"	9	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 3 5 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1 2 5 "

Coal consumed during the preceding 24 hours, tons 500 lbs.

Coal remaining on hand at Noon, 69 " 69 "

P. M.									
1	West	West	2	29.82	80	79	44	b.c. cir cum	6 S.
2	W. by N.	"	1	29.82	80	79	44	" "	8 "
3	W.N.W.	W. by N.	1	29.82	80	49	43	" "	8 "
4	"	"	1	29.82	49	49	43	" "	8 "
5	North	North	2	29.83	47	47	41	" "	6 "
6	N. by W.	"	1	29.83	46	46	41	" "	3 "
7	"	"	1	29.84	45	45	40	" "	3 "
8	North	"	1	29.85	45	45	40	" cum	2 "
9	"	N.W.	1	29.85	44	44	40	b.c. nimb	0 "
10	"	"	1	29.84	44	43	69	" "	3 "
11	"	"	1	29.84	44	42	69	" cum	3 "
Mid.	N. E.	N. by E.	1	29.84	44	43	68	b.c. str	4 "

under the command of Commander T. F. Jewell, U. S. Navy,
Sunday October 17th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends at 4 A. M.
Clear, wind in moderate squalls from S.W.

Hugh Rodman
Ensign U. S. N.

From 4 to 8 A. M.
Clear and pleasant. Gentle breeze from S.W. with moderate squalls first hour. Received on board and issued to crew 146 lbs fresh beef, 146 lbs vegetables and 117 lbs fresh bread.

B. F. Nassing
Asst. U. S. N.

From 8 A. M. to Meridian
Clear and pleasant. Light to gentle breeze from S.W. by S. at 9:30 minutes at quarters. Sent an officer to pay a visit of courtesy to H. M. S. "Pincer." Received a visit from an officer of H. M. S. "Pincer."

A. L. Dashiell
Ensign U. S. N.

From Meridian to 4 P. M.
Clear. Light breeze from West and W. by N.

Hugh Rodman.
Ensign U. S. N.

From 4 to 8 P. M.
Clear, and pleasant. Light breeze from North.

A. L. Dashiell
Ensign U. S. N.

From 8 P. M. to Midnight.
Cloudy. Latter part of watch clearing weather. Light breeze from N. and W. thence N. and E.

Hugh Rodman
Ensign U. S. N.

Examined and found to be correct.

A. V. Wadhams
Asst. Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Calcutta, Batta.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									@								
1				N. E.	N. E.	1			29.88	72	72	68		b.c.	cum	1	S.
2				E. by N.	Calm	0			29.88	73	73	69		"	cir cum	5	"
3				E. by S.	"	0			29.88	73	73	69		"	"	8	"
4				E. N. E.	"	0			29.88	74	73	69		"	"	7	"
5				West	"	0			29.88	71	70	68		"	"	2	"
6				East	East	1			29.88	72	72	69		"	"	5	"
7				E. by S.	"	1			29.89	73	73	70		"	"	7	"
8				"	"	2			29.90	75	74	71		"	"	7	"
9				"	"	1			29.95	77	76	74		"	"	6	"
10				E. by E.	"	1			29.96	78	77	74		"	"	6	"
11				"	"	1			29.97	78	75	75		"	"	6	"
Noon.				S. E. by E.	E. by S. E.	1			29.98	78	75	74		"	"	6	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "
Longitude by D. R. ° ' "
Latitude by observations of ⊙ ° ' "
Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "
Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "
Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 325 gallons.

Water——— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1 ton "

Coal consumed during the preceding 24 hours, tons 500 lbs.

Coal remaining on hand at Noon, 1 ton " 481 "

P. M.								
1	E. S. E.	E. S. E.	1	29.96	74	74	b.c.	cir cum	5	S.
2			1	29.96	74	74	"	cir	6	"
3	N. E. by E.	N. E.	1	29.98	74	74	"	"	4	"
4	E. by S.	"	1	29.95	74	74	"	"	5	"
5		E. S. E.	2	29.95	74	74	"	"	6	"
6	S. E.	"	2	29.95	74	74	"	"	8	"
7		"	2	29.96	74	75	"	"	9	"
8	S. E. by E.	"	1	29.96	74	75	"	"	0	"
9	S. by W.	"	1	29.96	74	75	"	"	9	"
10	"	Land	1	29.98	75	75	"	"	9	"
11	"	"	2	29.98	76	75	"	"	9	"
Mid.	"	"	2	29.98	75	75	"	"		

under the command of Commander T. F. Jewell, U. S. Navy,
Monday October 18th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Ends 4 A M.
Clear and warm. Calms and light airs from N. E. Bright moonlight.

E. D. Galloway
Lieut U. S. N.

From 4 to 8 A M.
Clear and warm. Calm and light airs from East. At 6 o. began coaling ship. Recieved by end of watch 40 tons. By direction of Comdg Officer sent H. E. Boyle, P. M., in double irons to await the getting sober.

E. A. Lockyer
Ensign U. S. N.

From 8 A. M. to Meridian
Clear. Gentle breeze from East and E. S. E. Received on board 40 tons coal. The following named men were brought on board by the police authorities, and a reward of two (2) Sovereigns was paid for each: Jas Horan 1st C. F., J. J. McGabe, Sea App 2 C., T. J. Clifford, Sea App 2 C. and J. Daley, Lds.

E. Hugh Rodman
Ensign U. S. N.

From Meridian to 4 P. M.
Fair and warm. Light airs from E. S. E. and N. E. Sent liberty party on shore. Confined Jim Ja Lee, Stg Std, in double irons for five days by Comdg Officer for bringing liquor on board. Commanding Officer relieved from making official visits.

E. D. Galloway
Lieut U. S. N.

From 4 to 8 P. M.
Clear. Light breeze from E. S. E. Mustered crew at quarters at 5 30 P. M. found R. Daniels, Lds, absent without leave. Served out clean hammocks.

E. Hugh Rodman
Ensign U. S. N.

From 8 P. M. to Midnight.
Clear and pleasant. Gentle breeze from South. Moon rose about 9 o.

E. D. Galloway
Lieut U. S. N.

Examined and found to be correct.

A. V. Wadhams Jr
Lieut
Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Calletta Matta

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a								
1				South	South	2			29.98	74	76	73		b.c.	cir cum	8	S
2				"	"	2			29.98	74	74	73		"	"	9	"
3				"	"	3			29.99	75	76	73		"	nme	10	"
4				"	"	3			29.99	75	74	72		"	cir	9	"
5				S. by W.	"	3			29.99	75	75	71		"	"	9	"
6				S S W.	"	3			30.00	76	75	71		"	"	9	"
7				S. by W.	"	2			30.01	76	76	72		"	cir	7	"
8				"	"	2			30.02	77	77	73		"	"	8	"
9				"	S by W.	3			30.04	79	79	74		"	cum	4	"
10				S S W.	"	3			30.09	80	80	76		"	"	4	"
11				"	S S W	3			30.09	82	81	74		"	cirstr	8	"
Noon.				S. by W.	"	3			30.09	80	82	75		"	cir	9	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: { Latitude by D. R. ° ' "
Longitude by D. R. ° ' "
Latitude by observations of ⊙ ° ' "
Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. { Latitude by ° ' "
Longitude by ° ' "

Position at 8 P. M. { Latitude by ° ' "
Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 400 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1 am "

Coal consumed during the preceding 24 hours, tons 500 lbs.

Coal remaining on hand at Noon, 146 " 2221 "

P. M.								
1	S by W.	S S W.	3	30.09	84	83	b.c.	cir	9	S
2	"	"	3	30.09	85	84	"	"	9	"
3	"	"	2	30.09	85	84	"	"	9	"
4	"	"	2	30.09	85	84	"	"	9	"
5	"	"	2	30.09	83	82	"	"	8	"
6	South	South	0-1	30.1	83	82	"	"	8	"
7	E S E	East	0-1	30.1	83	82	"	none	10	"
8	S E by S		0-1	30.13	82	82	"	"	10	"
9	S W by W	E calm	0	30.14	82	82	"	"	10	"
10	"	"	0	30.16	84	84	"	cir	9	"
11	"	"	0	30.16	86	86	"	cum	8	"
Mid.	S W by S	S W by S	0-1	30.15	86	86	"	none	10	"

under the command of Commander T. F. Jewell, U. S. Navy,

Tuesday October 19th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Cutter at A.M.
Clear and pleasant. Light to gentle breze from South.

From 4 to 8 A.M.
Clear. Light breze from South. Scrubbed hammocks. Received in Pay. Dept 145 lbs fresh beef, 145 lbs Vegtables, 116 lbs fresh bread.
Heazeing
Lieut to U.S.N.
Hoyt Robinson
Ensign U.S.N.

From 8 A.M. to Meridian
Clear and warm. Gentle breze from S.W. & S.S.W. at 9th went to General Quarters. Exercised casting loose, and securing. Times of casting loose 1st Div. 3m 55s 2d 6m 20s 3d. 2m 50s Powder 4m 50s Navigators 1m 45s Engineers 1m 35s Marine Guard 1m 40s. Absent R. Teuchet Lds, and James W.C. Quinn 2d C.S. Commanding Officers of U.S.R.M. Ships "Orion" "Albacore" and "Enterprise" paid visits to this ship. By order of Comdg Officer confined P. Torpey O.M. and J. Aberle P.M. on bread & water for five days. The first for refusing duty, the latter for insubordination. Overhauled sounding gear.
D. Galloway
Lieut U.S.N.

From Meridian to 4 P.M.
Clear and warm weather. Gentle to light breze from S.S.W. & S.W. Mr. Quinn 2d C.S. returned on board 12 hours overtime.
Heazeing
Lieut U.S.N.

From 4 to 8 P.M.
Clear and hot. Light airs from South, shifting to East at 7 o'clock.
D. Galloway
Lieut U.S.N.

From 8 P.M. to Midnight
Clear and ~~warm~~ Calm.
Heazeing
Lieut U.S.N.

Examined and found to be correct.

A.V. Fabbrazzo.
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", Rate,

Valletta, Malta.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									@								
1				S W by S	S W.	1			30.15	64	63			b.c.	cir. cum	8	S.
2				W S W.	"	1			30.14	64	58			"	"	8	"
3				S by W.	"	1			30.14	64	53			"	"	8	"
4				S W.	"	1			30.15	64	58			"	"	8	"
5				S by E.	S by E	3			30.14	64	58			b.c.	"	5	"
6				"	"	2			30.12	64	58			"	"	5	"
7				S W.	S by W.	3			30.12	64	58			b.c.	"	6	"
8				S by E.	South	2			30.18	64	63			"	"	8	"
9				E S E.	S E.	2			30.20	60	60			b.cy.	"	4	"
10						2			30.22	61	60			"	"	4	"
11				E by S	S S E	2			30.24	63	62			"	"	3	"
Noon.				"	"	2			30.26	64	61			"	"	2	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 325 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 625 "

Coal consumed during the preceding 24 hours, tons 500 lbs.

Coal remaining on hand at Noon, 146 " 1721 "

P. M.											
1	S by E.	S by E.	2	30.12	58	56	b.cy.	cir cum	2	S.
2	S S E.	"	2	30.12	58	56	"	"	2	"
3	S E.	"	2	30.12	58	56	"	"	2	"
4	S E by S.	"	2	30.12	58	54	"	"	2	"
5	W by S	S W.	2	30.12	58	56	b.c.	"	7	"
6	S by W.	"	1	30.12	58	54		cir	8	"
7	South	"	1	30.12	60	54	"	cir	3	"
8	S by W	"	1	30.12	60	54	"	"	3	"
9	South	S S E.	1	30.12	58	54	b.	none	10	"
10	S by W.	"	1	30.12	58	53	"	"	10	"
11	South	"	1	30.12	58	53	"	"	10	"
Mid.	S S W.	"	1	30.12	56	54	"	"	10	"

under the command of Commander T. F. Jewell, U. S. Navy,
Wednesday October 20th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Cutie + A M.
Clear and pleasant. Light airs from S.W.

B.T. Walling
Lieut U.S.N.

From 4 to 8 A.M.
Fair warm and sultry. Light airs from S.E. Received in Pay Dept 145 lbs beef, 145 lbs vegetables, 116 lbs bread and 10 sacks pots, pans and spoons.

C.D. Gillespy
Lieut U.S.N.

From 8 A.M. to Meridian
Warm with light breez from S.E. to S.S.E. at 935 quarters for inspection. Exercised 1st 2d & 3d Divisions Great Guns, Powder & Sh. Stations. Reduced to rating of Landsman M.K. Wilkerson, W.R. Steward. Pybut Teuchet Ldr was this day declared a deserter by order of Commander Commanding. Shipped for the service for special service Lorenzo Bellas, as Landsman.

W.C. Gearing
Lieut U.S.N.

From Meridian to 4 P.M.
Fair, warm and pleasant. Light breez from S by E.

J.J. Storrie
Ensign U.S.N.

From 4 to 8 P.M.
Clear warm. Light breez from S.W. to S by E. By order of Comdr Condy J.A. Winters, Gd. App 2d Class, given five days confinement on bread and water for insubordination.

W.C. Gearing
Lieut U.S.N.

From 8 P.M. to Midnight
Clear Light airs and breez from S.S.E.

B.T. Walling
Lieut U.S.N.

Examined and found to be correct.

[illegible]
Lieut USN Navigator.

LOG of the UNITED STATES Steamer "Essex", 30" Rate,

Calcutta, Malta.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a								
1				S S E.	S S E.	1			30.22					bc	cir str	9	S
2				S	"	2			30.22					"	"	9	"
3				"	"	2			30.22					"	cir cum	2	"
4				S by W.	"	2			30.21					"	"	4	"
5				"	S by W.	2			30.21					"	cir.	9	"
6				S S W.	"	2			30.21					"	"	9	"
7				"	S S W.	2			30.22					"	"	9	"
8				S by W.	S by W.	2			30.22					"	"	9	"
9				"	S S W.	3			30.22					"	"	9	"
10				"	"	3			30.22					"	"	9	"
11				"	"	3			30.22					"	"	9	"
Noon.				"	"	1			30.22					"	"	9	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by bearings N 35 ° 07' "
- Longitude by dr E 14 ° 40' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 32/5 gallons.

Water ——— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 250 "

Coal consumed during the preceding 24 hours, 1 tons 20 lbs.

Coal remaining on hand at Noon, 145 " 1401 "

P. M.													
1				S S W.	S W.	3	30.26			bcy.	cir	8	S
2				S W by S	"	3	30.25			"	"	7	"
3				S S W.	"	2	30.24			bc.	cum	4	"
4				S W.	"	1	30.23			"	"	3	"
5				South	"	2	30.22			"	"	3	"
6				S by W.	"	2	30.22			"	"	3	"
7	1 0	7 4	3.2	N. E. by N. N. E. by N.	South	2	30.22			"	cir	7	"
8	2 3	3 0	8.5	E. by S.	"	2	30.23			"	"	8	"
9	6	4 of	6	"	S S E.	2	30.26			C.	cme	10	"
10	6	6	1.2	"	"	3	30.22			"	"	10	"
11	7	0	28.7	"	"	3	30.22			"	"	10	"
Mid.	7	6	36.7	"	"	3	30.22			"	"	10	"

04.1002

N35.56

E15

under the command of Commander T. F. Jewett, U. S. Navy,
Thursday October 21st, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends at A.M.
Clear and pleasant. Light breeze from S.S.E.

C.A.F. Deshon
Ensign U.S.N.

From 4 to 8 A.M.
Clear and pleasant. Light breeze from S by W and S.S.W. Received and issued to crew the ration of fresh meat, vegetables and bread. At 6th am English gun boat, came into harbor proceeding to Dock Yard Creek. At 8oo started fires under boilers Nos 6 and 8 for distilling.

H.C. Gearing
Asst U.S.N.

From 8 A.M. to Meridian
Clear and pleasant. Gentle breeze from S.S.W. At 9oo Musters and inspected at quarters and divided 1st, 2d and 3d Divisions at Great Guns. Received official visits from Fundg officers of H.M.S. "Pegasus" and "Garnet".

B.A. Walling
Asst-U.S.N.

From Meridian to 4 P.M.
Weather warm. Light to gentle breeze from S.W. At 3th started fires under boilers Nos 1, 2, 3 and 4.

C.A.F. Deshon
Ensign U.S.N.

From 4 to 8 P.M.
Clear and warm. Light breezes from S.W. and South. Made preparations for sea. At 5.45 Steam was reported ready. At 6.00 let go from buoy and steamed out of the harbor. At 6.30 took departure St Elmo Light bearing N.W. 1/2 W, distant about 2000 Yards. Put over patent log registering zero (0). Changed course as follows, at 6.4 to E by N, at 6.52 to E by N. At 7.20 set course E by S patent log registering 5.5. St Elmo Light bore W.S.W. 1/4 W and Delaware Light House S.W. by W. At 8. St Elmo Light House bore W by S and Delaware Light House S.W. Smooth Sea. Commanding Officer paid an official visit to H.M.S. "Pegasus". Private C.E. Wade U.S.M.C. was found to be absent on Sailing, he not having returned from delivering the mail. Steam 55. Revolutions 36. 3. Draft of ship fwd 12'6", aft 15'5"

B.A. Walling
Asst-U.S.N.

From 8 P.M. to Midnight
Clear and warm. Heavy and gentle breeze from S.S.E. Under steam and fore and aft sail. Course E by S. Released M. Fitzgerald, Ldg, his term of confinement having expired. Found two stowaways on board viz Davis and David Anderson Belonging to the Steamer Hamilton. Distilling. Steam 55 lbs. Revolutions 39.

C.A.F. Deshon
Ensign U.S.N.

Examined and found to be correct.

A.V. Wadhams
Asst and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to Port Said, Egypt.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a								
1	7	8	44.7	E by S.	South	1			30.22	76	75	74	74	b.c.	cir-cum	8	S
2	7	6	52.2	"	S. E.	1			30.20	76	75	74	74	"	"	8	"
3	7	6	60.	"	"	2			30.19	76	75	73	74	"	"	8	"
4	7	8	67.8	"	S. by E.	3			30.18	76	75	73	74	"	"	8	"
5	8	8	76.6	"	"	1			30.18	76	75	73	73	b.cum.	"	9	"
6	8	7	85.1	"	N. by W.	2			30.19	76	75	73	73	"	"	9	"
7	8	6	93.7	"	North	2			30.19	75	74	72	74	"	"	9	"
8	8	6	102.3	"	"	2			30.20	75	74	72	74	"	"	9	"
9	8	6	10.8	"	"	1-2			30.21	75	74	72	74	"	"	9	"
10	8	4	19.5	"	N. N. E.	1-2			30.21	76	75	72	74	"	"	9	"
11	7	0	26.5	"	"	1-2			30.21	76	76	72	74	"	"	9	"
Noon.	8	8	35.3	"	"	1-2			30.20	76	76	72	75	"	"	9	"

Course and distance made good since preceding noon by observations, East 126 knots tenths.

Position at Noon:
- Latitude by D. R. — N 35 .51, "
- Longitude by D. R. — E 14 .16, "
- Latitude by observations of ⊙ — N 35 .57, "
- Longitude by chronometer from Forenoon Observations of ⊙ — E 17 .04, "

04.1103

Position at 8 a. m.:
- Latitude by D. R. — N 35 .53, "
- Longitude by Chro. — E 16 .24, "

Position at 8 P. M.:
- Latitude by D. R. — N 35 .29, "
- Longitude by Chro. — E 18 .24, "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 8h 0m " " 9h 4m E. W 9 .05, "

Water expended during the preceding 24 hours, 325 gallons.

Water Distilled during the preceding 24 hours, 1075 "

Water remaining on hand fit for use at Noon, 1200 "

Coal consumed during the preceding 24 hours, 9 tons 1030 lbs.

Coal remaining on hand at Noon, 136 " 671 "

P. M.														
1	7	0	43.6	E. by S.	E. by S.	East	0-1	30.18	79	78	74	76	b.c.	cir-	10	S
2	8	0	51.8	"	"	"	0-1	30.16	80	79	73	76	"	"	9	"
3	8	0	60.	"	"	"	0-1	30.15	80	79	73	76	"	"	9	"
4	8	0	68.	"	"	"	1	30.14	80	79	74	76	"	"	9	"
5	8	0	76.3	"	S. E.	S. E.	1	30.14	78	79	74	76	b.cu.	none	10	"
6	8	0	84.6	"	"	"	1	30.14	77	78	73	76	"	"	10	"
7	8	2	93.1	"	Calm	Calm	0	30.14	77	76	73	74	"	"	10	"
8	8	2	1.3	"	"	"	0	30.15	77	76	73	74	"	"	10	"
9	8	7	10.6	"	S. E.	S. E.	1	30.16	78	76	73	74	"	"	10	"
10	8	4	18.4	"	"	"	1	30.17	78	76	72	74	b. mo.	"	10	"
11	8	4	26.8	"	"	"	1	30.17	77	76	72	74	"	"	10	"
Mid.	8	2	35.	"	"	"	1	30.16	77	76	73	74	"	"	10	"

under the command of Commander T. F. Jewett, U. S. Navy,

Friday October 22d, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences, and until 4 A.M.

Fair and warm. Calms and light breezes from S.E. & South. Cirrus clouds passing over from South and West. Sea smooth. Heavy dew. Hom rose, at 12h. Settling. Steam 55. Revolutions 43

T. D. Galloway
Lieut U. S. N.

From 4 to 8 A.M.

Heavy dew this sunrise. Pleasant weather. Light breeze sprung up from N. by W. first hour hauling to North. Sea smooth. Passed two steamers standing to W. Under steam and fore & aft Sail. Course E. by S. Patent-log at 8h. 10m. 3s. Settling. Steam 54 Revolutions 44. 2.

H. L. Gearing
Lieut U. S. N.

From 8 A.M. to Meridian

Misty and warm weather. Light airs and breezes from North and N. N. E. Under steam and fore & aft sail. Steering a course E. by S. At 9h. 30m. beat to General Quarters and exercised divisions. Sent loose as follows: 1st Div 4m 58s. 2d Div 3m 40s. 3d Div 2m 55s. Navigators Div 1m 35s. Powder Div in 3m 10s. Engineers Div 1m 35s. Marines 1m 35s. Chiefs Pivot: 8 in M.L. Rifle 3m 30s. 6 Pdr: 0m 40s. Passed two steamers standing to W. Secured at 10.00. At 10h 4m set clock, ahead twelve (12) minutes. Smooth sea. Steam 54. Revolutions 46.

B. F. Dowling
Lieut U. S. N.

From Meridian to 4 P.M.

Clear and warm. Light airs from East. Under steam, alms. At 12h 10m hauled course to S. E. by E. 1/2 E. Patent-log reading 36.2. Settling. Steam 55 Revolutions 44.

A. T. Wragg
Ensign U. S. N.

From 4 to 6 P.M.

Hazy and warm. Calms and light airs from S.E. Smooth sea. Settling Steam 54. Revolutions 437.

T. D. Galloway
Lieut U. S. N.

From 6 to 8 P.M.

Thick haze and clear overhead. Calm Smooth sea. Steam, alms. Course S.E. by E. 1/2 E. At 6h 43m had Fire Quarters. 1st Stream 50s, 3d 2m 20s. Settling.

H. L. Gearing.
Lieut U. S. N.

From 8 P.M. to Midnight

Misty and cloudless. Heavy dew. Smooth sea. Light airs from S.E. Steering a course S.E. by E. 1/2 E. Under steam, only. Settling Steam 55. Revolutions 44

B. F. Dowling
Lieut U. S. N.

Examined and found to be correct.

A. T. Wragg
Lieut

Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d. Rate,

At Sea making passage to Port Said, Egypt.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	8	4	43.6	S.E.by.E.½.E.	S.E.	0-1	0		30.14	76	75	73	74	b.c.w	cir	9	S
2	8	4	51.7	"	East	1	0		30.13	76	74	73	73	"	"	9	"
3	8	6	60.2	"	N.E.	1	0		30.13	76	75	73	73	"	"	9	"
4	9	0	68.3	"	"	1-2			30.04	74	73	70	73	"	"	9	"
5	8	6	76.5	"	North	3			30.10	73	73	71	73	"	cir	8	"
6	9	0	85.5	"	"	3			30.10	73	72	71	73	"	cir	9	"
7	9	0	94.4	"	N.E.by.E.	3			30.10	73	72	71	73	b.	"	9	"
8	9	2	3.4	"	"	3			30.13	74	73	71	73	"	"	9	"
9	9	0	12.3	"	N.N.E.	3	2		30.14	76	75	72	73	"	"	9	"
10	8	8	21.	"	N.E.by.N.	3	2		30.15	76	73	73	73	"	"	9	"
11	5	4	26.	"	"	3	2		30.15	75	74	72	73	"	"	9	"
Noon.	8	0	34.4	"	"	2	2		30.12	76	74	72	73	"	"	9	"

Course and distance made good since preceding noon by observations, E.S.E.¼E 187 knots tenths.

Position at Noon:
- Latitude by D. R. — N. 34 44. "
- Longitude by D. R. — E. 20 058. "
- Latitude by observations of ⊙ — N. 34 046. "
- Longitude by chronometer from Forenoon Observations of ⊙ — E. 20 039. "

Position at 8 a. m.:
- Latitude by — N. 34 05-6. "
- Longitude by — E. 20 003. "

Position at 8 P. M.:
- Latitude by — N. 34 023. "
- Longitude by — E. 21 054. "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 8a.m. "S.E.by.E.½.E. W 9 .08. "

Water expended during the preceding 24 hours, 400 gallons.

Water Distilled during the preceding 24 hours, 1800 "

Water remaining on hand fit for use at Noon, 3600 "

Coal consumed during the preceding 24 hours, 10 tons 1990 lbs.

Coal remaining on hand at Noon, 125 " 975 "

P. M.														
1	8	4	43.1	S.E.by.E.½.E.	N.E.by.N.	2	1		30.13	75	75	72	74	b.c.	cir	9	S
2	8	2	51.3	"	N.by.E.	3	2		30.12	74	74	72	74	b.	nme	10	"
3	8	4	60.0	"	"	3	2		30.11	74	75	73	74	"	"	10	"
4	8	2	68.2	"	"	3			30.11	74	75	72	74	"	"	10	"
5	8	2	78.0	"	"	3			30.11	74	75	72	74	"	"	10	"
6	8	2	86.0	"	"	3			30.12	74	73	72	74	"	"	10	"
7	8	0	94.0	"	"	3			30.12	74	73	72	74	"	"	10	"
8	8	0	103.1	"	"	3			30.14	74	73	72	74	"	"	10	"
9	8	0	11.5	"	"	3	2		30.16	73	73	72	73	b.m.d.	"	10	"
10	8	0	19.9	"	"	2	2		30.16	73	73	72	73	"	"	10	"
11	8	0	28.3	"	"	2	2		30.18	73	73	72	73	"	"	10	"
Mid.	8	0	36.7	"	N.N.E.	2	2		30.18	73	72	71	73	b.c.m.a.m.		8	"

under the command of Commander T. F. Jewell, U. S. Navy,
Saturday October 2d, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commence and Ends at 4 A.M.
Clear and pleasant. Bright starlight. Moonrise at 1.25. Very heavy dew. Wind hauled from S.E. to N.E. freshening latter half of watch. At 2.00 set fore and aft sails and fore course. Steaming. Revolutions 48. Steam 55. Course N.E. by E.

Ensign U.S.N.

From 4 to 8 A.M.
Clear and pleasant. Light to gentle breeze from North & N.E. Very heavy dew. At 5.00 crossed royal yards made all plain sail except mainsail. Sea smooth. Steam 54. Revolutions 43.

Asst. Surgeon U.S.N.

From 8 A.M. to Meridian
Clear and pleasant. Gentle breeze from N.N.E. and N.E. by N. Sea smooth. Aired bedding. Released prisoners confinement by order of Commander Comdg. Jim Lee, Stg Steward, P. Torpey P.M. and J. Ackerle P.M. under steam and sail. Steam 54. Revolutions 42.

Lieut. U.S.N.

From Meridian to 4 P.M.
Clear weather. Light breeze from N.E. by N. and gentle breeze from N. by E. at 1.00 took in Spanker and gaff topsail. Under steam and plain sail to royals except mainsail and Spanker sails. Main topsail. Painted poop deck starboard side. Steam 55. Revolutions 47.

Lieut. U.S.N.

From 4 to 6 P.M.
Clear and pleasant. Gentle breeze from N. by E. Course N.E. by E. 1/2 E. under steam and plain sail except mainsail and Spanker. Steam 54. Revolutions 43.

Ensign U.S.N.

From 6 to 8 P.M.
Clear and pleasant. Gentle breeze from N.E. Very heavy dew. Sea smooth. Distilling. Cleaned ship. Revolutions 43.

Lieut. U.S.N.

From 8 P.M. to Midnight
Clear overhead. Hazy about horizon. Heavy dew. Light breeze from N. by E. Smooth sea. At 9.00 the tanks being full stopped distilling and hauled fires under boilers 6 and 8. Under steam and sail to royals except Spanker and gaff topsail. Steam 55. Revolutions 47.

Lieut. U.S.N.

Examined and found to be correct.

Navigator.

LOG of the UNITED STATES — Steamer "Essex", 3d Rate,

At Sea making passage to Port Said, Egypt.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a								
1	8	6	46.5	S. E½ E. 1/2 E.	N. N. E.	2	2		30.17	72	72	72	73	b.c.m.w.	cumuls	8	S.
2	8	5	54.	"	"	2	2		30.17	72	72	73	73	"	cir cum	5	"
3	8	8	62.8	"	"	2	2		30.16	72	73	71	73	"	"	4	"
4	8	4	71.5	"	"	2	2		30.16	72	73	74	73	"	"	8	"
5	8	1	79.6	"	"	2			30.18	72	72	72	73	b.m.	none	10	"
6	8	6	88.2	"	Calm	0			30.18	72	72	72	73	"	"	10	"
7	8	1	96.3	"	"	0			30.20	72	72	71	73	f.	"	10	"
8	6	0	102.8	"	"	0			30.22	72	72	71	73	"	"	10	"
9	6	0	108.9	"	"	0			30.25	73	72	71	74	b.f.	"	10	"
10	6	2	114.3	"	East	0-1			30.26	75	74	73	74	"	"	10	"
11	5	2	119.4	"	North	1			30.27	74	76	74	74	b.c.	cir cum	9	"
Noon.	4	4	80.3	"	"	1			30.27	73	75	73	74	b.c.	"	9	"

Course and distance made good since preceding noon by observations, E. by E. 1/4 E. 193 knots tenths.

Position at Noon:
- Latitude by D. R. — N. 33 ° 40 ' "
- Longitude by D. R. — E. 24 ° 18 ' "
- Latitude by observations of ⊙ — N. 33 ° 41 ' "
- Longitude by chronometer from Forenoon Observations of ⊙ — E. 24 ° 01 ' "

4/1024

Position at 8 a. m.
- Latitude by D R — N. 33 ° 49 ' "
- Longitude by Chro — E. 23 ° 30 ' "

Position at 8 P. M.
- Latitude by D. R. — N. 33 ° 20 ' "
- Longitude by Chro. P. R. — E. 25 ° 11 ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 340 ° " S. E by E. 1/2 E. W 4 ° 25 ' "

Water expended during the preceding 24 hours, 325 gallons.

Water Distilled during the preceding 24 hours, 625 "

Water remaining on hand fit for use at Noon, 2900 "

Coal consumed during the preceding 24 hours, 8 tons 1250 lbs.

Coal remaining on hand at Noon, 116 " 1911 "

P. M.													
1	4	6	34.9	S. E by E. 1/2 E.	N. N. W.	3	2	30.26	76	76	73	b.c.	cir cum	9	S.
2	4	8	45.8	"	"	3	2	30.25	76	76	73	"	"	9	"
3	4	8	53.6	"	"	2	2	30.25	76	76	73	"	"	9	"
4	4	8	61.4	"	"	2	2	30.25	76	75	73	"	"	9	"
5	4	8	69.2	"	"	2	0	30.25	76	74	76	b.f.	none	10	"
6	4	8	77.	"	"	2	0	30.25	76	74	76	"	"	10	"
7	4	6	84.	"	"	1	0	30.25	76	74	76	"	"	10	"
8	4	2	92.	"	"	1		30.25	76	74	76	"	"	10	"
9	5	9	100.3	E. by E.	N. N. E.	1		30.27	76	75	74	b.f.	clr	9	"
10	8	3	8.5	"	"	2		30.28	73	72	72	"	"	8	"
11	8	4	16.1	"	"	2		30.27	72	72	72	"	"	8	"
Mid.	8	1	24.9	"	"	2		30.26	73	72	72	"	"	8	"

4/1035 3517 N. 254

under the command of Commander T. F. Jewell, U. S. Navy,

Sunday October 24th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Unto 4 A. M.

Misty, damp weather. Clear, overhead. Light breeze from N. N. E. Steering a course S. E. by E. 1/2 E. under steam and plain sail to royals except main sail and spanker in addition main topsail and mizzen topmast staysail. Passed a steamer standing to W. Sea smooth. Steam 5. Revolutions 44.

D. T. Wagning
Lieut U. S. N.

From 4 to 8 A. M.

First half of watch light breeze from N. N. E, then calm. At 6 m. passed through a light fog bank. At 6 h 5 m fog set in thick. Stowed, down shrouds, all sail. At end of watch under steam, alone. Course S. E. by E. 1/2 E. Steam 49. Revolutions 40.8.

E. A. Taylor
Ensign U. S. N.

From 8 A. M. to Meridian.

Thick fog until 10 h 50 m then clear and hot. Calms and light airs from East then North. Sea smooth. At 10 h 45 m general inspection. Steam 54. Revolutions 34.1.

D. Galloway
Lieut U. S. N.

From Meridian to 4 P. M.

Clear and pleasant. Winds to light breeze from N. N. W. Sea smooth. At 1 h 20 m set sail to royals except gaff topsail. Under steam and sail. Course S. E. by E. 1/2 E. Steam 56. Revolutions 40.6.

L. N. Helgering
Lieut U. S. N.

From 4 to 6 P. M.

Foggy, at end of watch fog banks drifting round horizon entire watch. Light breeze from N. N. W. At 5 h 0 m took in royals and sail, and at 5.40 fore and aft sail. Passed an Italian steamer standing to W. Steam 54. Revolutions 43.

D. T. Walling
Lieut U. S. N.

From 6 to 8 P. M.

Foggy first half hour, then clear and pleasant. Light airs from N. N. W. under steam alone. Course S. E. by E. 1/2 E. Steam 53. Revolutions 32

E. A. Taylor
Ensign U. S. N.

From 8 P. M. to Midnight.

Clear overhead with thick banks of low fog at intervals. Light breeze from N. N. E. at 9 h 20 m set fore and aft sail. Sea smooth. Steam 55. Revolutions 42.2.

D. Galloway
Lieut U. S. N.

Examined and found to be correct.

L. T. Washington
Lieut U. S. N. Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

At Sea making passage to Port Said, Egypt.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a								
1	7	9	32.8	E. & E.	N. N. E.	2	2		30.25	73	73	72	74	b.mw.	nne	10	S
2	8	0	41.	"	N. E.	3	2		30.23	73	73	72	74	"	"	10	"
3	8	0	49	"	"	3	2		30.23	74	73	71	75	"	cir cum	9	"
4	7	8	56.8	"	"	4	3		30.22	73	73	71	75	"	"	8	"
5	8	0	64.8	"	N. E. by E.	4	3		30.23	73	74	74	75	"	"	9	"
6	8	2	73.	"	N. E.	4	3		30.23	73	74	74	75	"	"	9	"
7	8	2	81.2	"	"	4			30.23	74	74	75	69	75	"	"	8	"
8	8	2	89.4	"	"	4			30.24	74	74	75	69	75	"	"	8	"
9	5	1	92.4	E. by S.	N. E. by N.	4			30.26	74	74	73	70	75	b.c.	cir	9	"
10	8	4	100.9	"	N. N. E.	4			30.26	74	74	73	70	75	"	"	9	"
11	6	4	107.3	"	N. by E.	4			30.23	74	74	73	70	74	"	"	9	"
Noon.	9	1	121.2	"	"	4			30.23	74	74	73	70	74	"	"	9	"

Course and distance made good since preceding noon by observations, East 185 knots. tenths.

24.1025" Position at Noon:	Latitude by D. R.	N	32°49' "
	Longitude by D. R.	E	24°39' "
	Latitude by observations of ⊙	N	32°43' "
	Longitude by chronometer from Forenoon Observations of ⊙	E	24°42' "
Position at 8 a. m.	Latitude by D.R.	N	32°44' "
	Longitude by Chron do do do	E	24°05' "
Position at 8 P. M.	Latitude by D.R.	N	32°28' "
	Longitude by Chron P.M. do do	E	24°04' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 8h 13m " E. & E. W 5°58' "

Water expended during the preceding 24 hours, 376 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 25515 "

Coal consumed during the preceding 24 hours, 8 tons 1340 lbs.

Coal remaining on hand at Noon, 108 " 541 "

P. M.														
1	9	3	30.4	E. by S.	North	4		1/2	30.21	74	73	70	75	b.c.	cir	2	N
2	9	3	40.	"	"	5		1/2	30.18	74	73	70	75	"	"	2	"
3	9	4	49.4	"	N. by W.	5-6		1/2	30.17	74	73	70	75	"	cir	2	"
4	9	5	58.9	"	N. N. W.	5-6			30.16	74	72	69	75	"	"	2	"
5	9	5	68.5	"	"	5-6	5		30.14	73	73	69	74	"	"	2	"
6	9	5	78.	"	"	6	5		30.14	73	72	69	74	"	"	8	"
7	9	2	84.2	"	"	5	6		30.12	73	72	69	74	"	"	8	"
8	9	4	96.6	"	North	5	4		30.12	73	72	69	74	"	"	8	"
9	9	4	106.	"	"	5-	6		30.12	72	72	69	74	"	"	8	"
10	9	8	115.8	"	"	5	6		30.12	72	72	68	74	"	"	8	"
11	9	6	125.4	"	"	5	6		30.10	72	72	68	74	"	"	8	"
Mid.	9	4	134.8	"	N. by W.	6	6		30.09	72	72	68	74	"	"	8	"

under the command of Commander T. F. Jewell, U. S. Navy,

Monday October 25th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Ends 4 A. M.

Clear overhead hazy around horizon. Heavy dew. Light increasing to moderate breeze from N.N.E. to N.E. Unbooch, sea. Under steam and fore and aft sail.

W. H. Gearing
Lieut U.S.N.

From 4 to 8 A. M.

Misty about horizon. Moderate breeze from N.E. by E. and N.E. Under steam and fore and aft sail on course E.S.E. Passed a steamer standing to N.E. and W. Steam 5h. Revolutions 43.1.

D. P. Wessells
Lieut U.S.N.

From 8 A. M. to Meridian.

Clear and pleasant. Moderate breeze from N.E. by N. hauling to N. by E. towards end of watch. At 10m Set foresail. At 11m Set topsails. At end of watch under steam and plain sail to topsails except mainsail and Spanker. At 8 20m Changed course to E. by S. At 9 30m inspected at quarters. Exercised 1st, 2nd & 3d Div at Great Guns. Marines at infantry. Inspected dry gun cotton primers. Released J. A. Winters Sea App 2 C, his term of confinement having expired. By order of Commander placed T. H. Hewett 1 C Apl and J. F. Ferrity Sea App 2 C in confinement on bread and water for three days for neglect of duty; also J. Bossley, Lds, in double irons for five days for stealing provisions.

A. Dayton
Ensign U.S.N.

From Meridian to 4 P. M.

Clear and pleasant. Stiff to fresh breeze from North veering to N.N.W. Sea smooth. Pretty strong, in port Steam. Hole 5° to 11°. Torpedo officer overhauled gun cotton outfit.

C. Galloway
Lieut U.S.N.

From 4 to 6 P. M.

Clear and pleasant. Fresh breeze from N.N.W. Moderate sea. Steam and sail to topsails except mainsail.

W. H. Gearing
Lieut U.S.N.

From 6 to 8 P. M.

Clear weather. Stiff to fresh breeze from N.N.W. Moderate to rough Steam sea. At 7.05 Set T. G. Sails. Shipped course E. by S. under steam and plain sail to T. G. Sails (except mainsail and Spanker) main trysail and Higgin Jaumest Staysail. Steam 4h. Revolutions 42.8.

D. P. Wessells
Lieut U.S.N.

From 8 P. M. to Midnight.

Weather clear and pleasant. Stiff breeze from North and N. by W. Under steam and plain sail to light sails except mainsail and Spanker. Course E. by S.

A. Dayton
Ensign U.S.N.

Examined and found to be correct.

J. W. Watson
Lieut and Navigator.

LOG of the UNITED STATES — Steamer "Essex", 3d Rate,

At Sea making passage to Port Said, Egypt.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a								
1	9	2	44	E by S	N.W.	5			30.02	72	72	68	74	bc	cumu	7	H
2	9	4	93.4	"	"	5			30.05	72	72	68	74	"	"	8	"
3	9	5	63.1	"	"	5			30.03	72	71	68	74	"	cb	9	"
4	9	8	73.	"	"	5			30.01	72	71	67	74	"	cu cb	9	"
5	9	6	82.6	"	"	5	3		30.01	72	71	68	74	"	"	8	"
6	9	0	91.7	"	"	4	3		30.00	72	71	68	75	"	cu cumu	8	"
7	9	0	.9	"	"	4	3		30.00	72	72	68	75	"	"	6	"
8	9	0	9	"	"	4	3		30.00	72	72	68	76	"	"	6	"
9	5	4	14.4	S "E	"	4			30.00	73	71	67	76	"	"	6	"
10	8	0	2.5	"	"	4			30.00	74	72	71	76	"	"	6	"
11	5	2	30.7	"	"	3			30.00	75	71	70	76	"	"	6	"
Noon.	8	1	38.8	"	"	3			30.00	71	71	70	77	"	"	6	"

Course and distance made good since preceding noon by observations, E by S 201 knots tenths.

Position at Noon:
- Latitude by D. R. — N. 31 ° 55. "
- Longitude by D. R. — E. 31 ° 49. "
- Latitude by observations of ⊙ — N. 31 ° 58. "
- Longitude by chronometer from Forenoon Observations of ⊙ — E. 31 ° 32. "

Position at 8 a. m.
- Latitude by D.R. — N. 32 ° 10. "
- Longitude by Chro — E. 31 ° 05 "

Position at 8 P. M.
- Latitude by — N. ° ' "
- Longitude by — E. ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 8 a.m. " E by S W 4 36. "

Water expended during the preceding 24 hours, 345 gallons.

Water ——— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2150 "

Coal consumed during the preceding 24 hours, 4 tons 2065 lbs.

Coal remaining on hand at Noon, 100 " 476 "

P. M.															
1	6	5	46.3	S E	N W	3		29.99	74	74	69	74	bc	cu cumu	6	H
2	8	3	53.6	"	"	3		29.96	74	74	68	72	74	"	"	4	"
3	8	5	62.1	"	"	3		29.90	74	74	68	72	74	"	"	8	"
4	4	4	70.	"	"	3		29.94	74	74	69	72	74	"	"	8	"
5	4	9	74.4	"	"	3		29.94	74	74	69	71	74	"	cumu cb	6	D
6	8	3	8.	S E by E	"	3		29.94	76	75	69	71	74	"	"	4	"
7				S E by E	"	2		29.96	76	75	69	71	74	"	"	4	"
8			At Anchor		"	2		29.99	76	75	69	71		"	"	4	"
9				S E	West	3		29.99	75	75	70	71		"	"	4	"
10					"	3		29.99	75	76	70	71		"	"	8	"
11			Moored in the harbor of		"	2		29.99	74	74	70	73	76	"	"	8	"
Mid.			Port Said Egypt.		"	2		29.96	73	72	70	72	68	"	"	9	"

under the command of Commander T. F. Jewell, U. S. Navy,
Tuesday October 26th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Unties H. A. M.
Clear and pleasant. Stiff breez from N. W. Smooth Sea. Gentle swell.
E. G. Galloway
Lieut U. S. N.

From 4 to 8 A. M.
Clear and pleasant. Stiff decreasing breez from N. W. Moderate Sea. At 4.30 sighted Rosetta Light from royal-yard bearing about S. E. Under steam and sail to top gallant sails. Course E. by S.
H. Leaming
Lieut U. S. N.

From 8 A. M. to Meridian.
Clear and pleasant. Moderate and gentle breez from N. W. At 8.40 changed course to S. E. Squared away and set royals: took in main brigsail, fore and mizzen topmast staysails. Patent log registered 14.4 At 9.30 inspected at quarters and drilled 1st 2d & 3d divisions at great guns and Engineers division at small arms. Inspected bags. Steering a course under steam, and all plain, drawing sail. Revolutions 39. Pressure 45
Dealing
Lieut U. S. N.

From Meridian to 4 P. M.
Clear and pleasant. Gentle breez from N. W. Under steam, topsails top gallant sails royals and Jib. At 2.30 sighted Damietta Light bearing S. by E. at end of wales. Damietta Light bore, on starboard beam. Course S. E.
C. T. Jewell
Comdr U. S. N.

From 4 to 6 P. M.
Clear and pleasant. Gentle breez from N. W. At 5.04 Damietta Light bore West distant 12 miles At 5.48 Port Said light in sight bearing S. S. E. At 5.50 changed course to S. E. 3/4 S. Placed two stowaways under charge of sentry.
E. D. Galloway
Lieut U. S. N.

From 6 to 8 P. M.
Clear and pleasant Light breez from N. W. At 6.40, called all hands, shortened and furled sail, and at 7.30 came to in 5½ fms water, starboard anchor hanging dropped port anchor, then starboard cable let go. Hove up starboard anchor and veered to 25 fms port chain. Ship pooling gently.
H. Leaming
Lieut U. S. N.

From 8 P. M. to Midnight
Clear and pleasant weather. Light to gentle breezes from West At 8.10 sent up a rocket for pilot. At 8.15 hove up port anchor and stood towards canal entrance. At 8.46 pilot came on board. Stood into harbor of Port Said Egypt under Conn of pilot; at 9.50 moored ship head and stern to buoys No 1 and 2 in Eastern side of harbor and ran abreast fast to the dock: at 10 hauled fires. Draft forward 13.6 amid 14.8 aft 15.10. Pilot left ship at 10.50. Ensigns A. F. Fechteler U. S. N. & H. C. Poundstone U. S. N. left the ship on four days leave of absence. Expended in Navigation Dept (2) Two Signal Rockets.
B. F. Dowling
Lieut U. S. N.

Examined and found to be correct.

S. W. Adams
Lieut U. S. N.
Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Port Said, Egypt

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	Force.	Heel.	Leeway.	BAROMETER. Height in inches.	Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	Air, Wet Bulb.	Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.				Moored Head & Stern					a/								
1				Ships Head S.W. by S.	West	1			29.96	74	72	68		b.	cum	10	S
2					"	1			29.96	74	72	68		"	"	10	"
3					"	1			29.94	74	72	68		"	"	10	"
4					"	1			29.94	74	72	68		"	"	10	"
5					"	1			29.93	74	72	70	68	b. c.	cir str	9	"
6					"	2			29.93	74	72	70	68	"	"	9	"
7					"	2			29.93	74	72	70	68	"	"	9	"
8					"	2			29.94	74	72	70	68	"	"	9	"
9					"	2			29.96	74	74	71	68	"	"	9	"
10					"	2			29.96	74	74	72	68	"	"	9	"
11					"	1			29.96	76	76	74	70	"	"	9	"
Noon.					"	1			29.95	74	76	74	70	"	"	9	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ' . "
Longitude by D. R. ° ' "
Latitude by observations of ⊙ ° ' "
Longitude by chronometer from Forenoon Observations of ⊙ ° ' . "

Position at 8 a. m. Latitude by ° ' "
Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "
Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 4 tons gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1650 "

Coal consumed during the preceding 24 hours, 2 tons 1440 lbs.

Coal remaining on hand at Noon, 94 " 1520 "

P. M.																	
				Ships Head S.W. by S.													
1					West	1			29.93	72	72	68		h.	cum	9	S
2					"	1			29.92	72	72	68		"	"	9	"
3					"	1			29.92	72	72	68		"	"	9	"
4					"	1			29.92	72	72	68		"	"	9	"
5					N. E. by N.	1			29.94	76	76	72	71	b. c.	"	9	"
6					"	0-1			29.94	76	76	72	71	"	"	9	"
7					"	0-1			29.95	76	74	74	70	"	"	9	"
8					"	0-1			29.96	74	74	74	70	"	"	9	"
9					"	1			29.96	76	76	73	69	"	"	9	"
10					"	1			29.94	74	74	73	69	"	"	9	"
11					"	1			29.98	74	74	73	69	"	"	9	"
Mid.					"	1			29.98	74	74	73	69	"	"	9	"

under the command of Commander T. F. Jewell, U. S. Navy,

Wednesday October 27th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Cutie H. A. M.
Clear and Pleasant. Light airs from West.

W. B. Hoggatt
Ensign U. S. N.

From 4 to 8 A. M.
Clear and Pleasant. Light breeze from West. First Lieut R. L. Wainwright U. S. M. C. Ensigns L. Rodman and T. J. Lewis, Cadet Engr Redgrave left the ship, on four days leave of absence.

H. Helfgering.
Lieut U. S. N.

From 8 A. M. to Meridian
Clear and Pleasant. Light breeze airs from West. Received official visits offering usual civilities from Egyptian Frigate "Essaca" and English Sloop "Cygnet". Commanding officer English Sloop "Cygnet" paid an official visit to the ship. Ft Broadbent U. S. Vice Consul, called upon the ship. Three Steamers came in and made fast to buoys.

B. F. Waring
Lieut U. S. N.

From Meridian to 4 P. M.
Clear and Pleasant. Light airs from West. Sent two Shamrocks received at Malta ashore to English Consul. Commander Jewell paid official visits to the Governor of Port Said, and the Commanding Officers of the Egyptian Frigate Essaca and English Corvette Cygnet.

W. B. Hoggatt
Ensign U. S. N.

From 4 to 8 P. M.
Clear and Pleasant. Light airs from N. E. by N. and Calmer. German mail Steamer sailed.

B. F. Waring
Lieut U. S. N.

From 8 P. M. to Midnight
Clear and Pleasant. Light airs from N. E. by N.

W. B. Hoggatt
Ensign U. S. N.

Examined and found to be correct.

A. V. Wadhams.
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Port Said, Egypt.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel,	Leeway,	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.				Head W. Stern					@								
1				S. W. by S.	West	1			29.99	74	73	69		b.c.	cum	9	S
2					"	1			29.99	72	72	68		"	"	9	"
3					"	1			29.99	72	72	68		"	"	9	"
4					"	1			29.99	72	72	68		"	"	9	"
5					"	1			29.99	72	72	68		"	"	9	"
6					"	1			30.00	71	70	69		"	"	9	"
7					"	1			30.00	70	70	69		b.c.	nme	10	"
8					"	1			30.00	70	72	69		"	"	10	"
9					"	2			30.06	73	72	68		b.	"	10	"
10					"	2			30.07	74	73	68		"	"	10	"
11					"	2			30.07	74	74	69		"	"	10	"
Noon.					"	2-3			30.06	74	73	69		"	"	10	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "
Longitude by D. R. ° ' "
Latitude by observations of ⊙ ° ' "
Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.: Latitude by ° ' "
Longitude by ° ' "

Position at 8 P. M.: Latitude by ° ' "
Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 400 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 12550 "

Coal consumed during the preceding 24 hours, tons 1550 lbs.

Coal remaining on hand at Noon, 143 " 2210 "

P. M.										
		Ships Head								
1		S. W. by S.	West	2	30.04	74	74	b.	nme	10 S
2			"	2	30.04	75	74	"	"	10 "
3			"	2	30.04	75	75	"	"	10 "
4			"	1	30.04	74	74	"	"	10 "
5			"	1	30.04	74	74	"	"	10 "
6			"	1	30.04	74	73	"	"	10 "
7			"	1	30.04	74	73	"	"	10 "
8			"	1	30.04	74	74	"	"	10 "
9			Calm	0	30.04	75	75	"	"	10 "
10			"	0	30.04	75	75	"	"	10 "
11			Light	1	30.10	75	74	b.c.	circum	6 "
Mid.			"	1	30.04	74	73	"	"	7 "

under the command of Commander T. T. Jarvis, U. S. Navy,

Thursday October 28th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends at 4 A.M.
Clear and cool. Light airs from West. E. E. Wade P.A. returned on board having been forwarded by P. & O. steamer from Malta by U.S. Consul

E.D. Galloway
Lieut U.S.N.

From 4 to 8 A.M.
Clear and pleasant. Light airs from West. Made preparations for coaling ship. Lighter came alongside at 7:15. Commenced coaling at 7:20. Received on board in Coal Depts and issued to crew 145 lbs fresh beef, 145 lbs vegetables and 116 lbs fresh bread. An Egyptian and an Austrian Lloyd steamer came in. Lieut Junr J.A. Dickens U.S.N. and P.A. Paymaster H.B. Smith U.S.N. left the ship on three days leave of absence.

E.D. Galloway
Lieut U.S.N.

From 8 A.M. to Meridian.
Clear and pleasant. Light breeze from West. The Commanding Officer paid an official visit to the U.S. Ves Shark. The Commanding Officer of the Egyptian corvette returned official visit of the Commanding Officer. Finished Coaling ship. Received on board 41 tons.

W.B. Hoggatt
Ensign U.S.N.

From Meridian to 4 P.M.
Clear and pleasant. Gentle breeze from West.

E.D. Galloway
Lieut U.S.N.

From 4 to 8 P.M.
Clear and pleasant. Light airs from West.

W.B. Hoggatt
Ensign U.S.N.

From 8 P.M. to Midnight
Clear and calm. Light breeze from South.

E.D. Galloway
Lieut U.S.N.

Examined and found to be correct.

E.T. Woodward
Lieut and Navigator.

LOG of the UNITED STATES, Steamer "Essex", 3d Rate,

Port Said, Egypt.

Hour.	Knots.	Fathms.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.				Ships Head E. & Stern													
1				Ships Head S.W. by S.	South	2			30.10	69	73	71		b.c.	cir	9	1
2					"	2			30.10	69	73	71		"	"	9	"
3					"	2			30.09	69	73	71		"	"	9	"
4					"	2			30.09	69	73	71		"	"	9	"
5					Calm	0			30.09	69	73	71		"	"	9	"
6						0			30.10	69	84	69		"	"	9	"
7					West	1			30.12	69	71	68		"	"	9	"
8					"	1			30.14	69	73	68		"	"	9	"
9					"	1			30.15	69	73	71		"	cir cum	8	"
10					"	3			30.15	69	76	69	73	"	"	8	"
11					"	3			30.15	69	76	69	73	"	"	8	"
Noon.					"	3			30.14	69	76	69	73	"	"	7	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 430 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 831 "

Coal consumed during the preceding 24 hours, tons 40 lbs.

Coal remaining on hand at Noon, 143 " 1810 "

P. M.																	
1				Ships Head S.W. by S.	W.N.W.	3			30.13	69	74	72	70	b.c.	cir cum	7	1
2					"	3			30.13	69	82	76	70	"	"	7	"
3					"	3			30.12	69	82	74	71	"	"	9	"
4					"	3½			30.12	74	74	74	70	"	"	9	"
5					"	3			30.12	74	54	68		"	"	7	"
6					"	3			30.12	69	82	64		"	"	7	"
7					"	3			30.12	69	72	64		"	"	8	"
8					"	3			30.13	69	70	64		"	"	8	"
9					W. by W.	3½			30.12	69	70	64		b.c.	cir cir	7	1
10					"	2			30.12	69	70	64		"	"	7	"
11					"	4			30.11	69	70	64		"	"	7	"
Mid.					"	4			30.11	69	70	64		b.c.	cir cum	10	"

under the command of Commander T. F. Jewell, U. S. Navy,

Friday October 29th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M.
Clear and pleasant. Light breeze from South.

N.C. Gearing.
Lieut U. S. N.

From 4 to 8 A. M.
Clear and pleasant. Calm and light airs from West. Received 146 lbs fresh beef, 146 lbs vegtables and 117 lbs fresh bread.

W.B. Boggett
Ensign U. S. N.

From 8 A. M. to Meridian.
Fair and pleasant. Moderate to stiff breeze from West. At 9 40 quarters. At 9 50 exercised fire quarters. Fired 1 30 pdr 2 5 inch 3 30 inch 3 11 5 inch Prod 1 20 inch Gat 1 00 inch Engro 1 05 inch. Marines. At 11 00 his Excellency Ibrahim Pacha Governor Port Said paid an official visit to the ship and received the usual honors. At 12 30 began cleaning bilges.

Ed Galloway
Lieut U. S. N.

From Meridian to 4 P. M.
Clear and pleasant. Fresh breeze from W. N. W. Cleaned bilges.

N.C. Gearing.
Lieut U. S. N.

From 4 to 8 P. M.
Clear and pleasant. Moderate breeze from W. N. W. Placed Charles Wiley Landsman, double irons for fifteen days for entering wine locker without permission and being under the influence of liquor by order of Comdg Officer

Ed Galloway
Lieut U. S. N.

From 8 P. M. to Midnight.
Clear and cool. Moderate breeze from W. S. W. with occasional puffs. Lightning to the N. E. At 8 50 started fires under boilers 1 and 3 for distilling. Ensign Hugh Rodman returned from leave.

N.C. Gearing.
Lieut U. S. N.

Examined and found to be correct.

A.W. Washburne.
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Ewell", 3d Rate,

Port Said, Egypt.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in tenths.	State of the Sea.
A. M.				Ships Head S.W. by S.	W. by W.	4			30.08	70	68			b.c.	Cu	9	S
1				"	"	4			30.06	69	68	64		"	"	9	"
2				"	"	4			30.04	69	68	64		"	cir-str	9	"
3				"	"	4			30.03	69	68	64		"	"	8	"
4				"	"	4			30.03	69	68	64		"	"	8	"
5				"	"	3			30.01	69	68	64		"	cir	8	"
6				"	"	3			30.01	69	68	64		"	none	10	"
7				"	"	3			30.02	69	68	68		b.c.	"	10	"
8				"	"	3			30.02	69	68	68		"	cir-cum	9	"
9				"	"	3			30.02	70	68	68		"	"	9	"
10				"	"	3			30.02	70	68	68		"	"	8	"
11				"	"	3			30.02	70	68	68		"	"	9	"
Noon.				"	"	3			30.02	71	69	68		"	"	9	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 325 gallons.

Water Distilled during the preceding 24 hours, 645 "

Water remaining on hand fit for use at Noon, 1101 "

Coal consumed during the preceding 24 hours, 1 tons 1680 lbs.

Coal remaining on hand at Noon, 142 " 134 "

P. M.								
1	Ships Head S.W. by S.	West	3	29.99	69	b.c.g.	cir-cum	8 S
2		"	4	29.99	69	"	"	7 "
3		"	4	29.99	69	"	"	7 "
4		"	5	29.98	69	"	cum-nimb	5 "
5		W.N.W.	4	29.99	68	b.c.	"	3 "
6		"	4-5	30.00	69	"	"	3 "
7		"	4-5	30.01	69	"	"	3 "
8		"	4	30.02	69	b.c.	"	4 "
9		"	4	30.02	69	" g	"	4 "
10		"	4	30.03	69	"	"	4 "
11		"	4	30.03	68	"	"	6 "
Mid.		"	3	30.03	68	b.c.	"	7 "

under the command of Commander T. F. Jewell, U. S. Navy,
Saturday October 2d, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends A.M.
Clear cool weather. Moderate breeze from W. S. W. Lt. Cmdr G. A. Richmond U. S. N. and P. A. Engr H. R. Smith U. S. N. returned from leave.
Distilling.

B. L. Wareing
Lieut U. S. N.

From 4 to 8 A.M.
Fair and cool first part. Cloudy with frequent showers latter part. Moderate breeze from W. S. W. Distilling.

Geo. Galloway
Lieut U. S. N.

From 8 A.M. to Meridian
Clear and cool. A gentle breeze from W. S. W. Overhauled all gun tackle blocks and gun-truck axles. At 9 o. M. U. S. S. Starling passed in from Mediterranean. Sent an officer to give the usual offer of services. At 11 o. started fires in boilers Nos 5 and 4, allowing fires to die out under Nos 1 & 3.
Distilling.

N. C. Searing.
Lieut U. S. N.

From Meridian to 4 P.M.
Dogr until last hour when threatening rain. Gentle to staff breezes in squalls from West. Ran out extra lines to buoys. French Frigate "La Legand" came in and made fast to buoy. Sent an officer to offer usual civilities.
Distilling. Hauled fires in Nos 1 and 3 boilers and started fires in Nos 5 and 4 boilers.
Received an official visit from Lt Cmdg Officer of U. S. S. Starling.

B. L. Wareing
Lieut U. S. N.

From 4 to 8 P.M.
Generally fair. Cool with passing showers. Moderate breeze with occasional strong puffs from W. N. W. At 4.45 sent down T. Yeoman Hats and Jack-bibbed Lower Yards preparatory to setting Awnings. Received a visit from an officer of the French Frigate "La Sendre". Commanding Officer paid official visits to U. S. S. "Starling" and the French Ship "La Sendre"

N. C. Searing.
Lieut U. S. N.

From 8 P.M. to Midnight
Clearing weather. Gentle to moderate breezes from W. N. W. The following officers returned from leave, Ensigns A. F. Fechteler and F. J. Lewis, Asst Engineer S. C. Redgrave and Lieut R. S. Wainwright U. S. M. C.

B. L. Wareing
Lieut U. S. N.

Examined and found to be correct.

S. D. Lovering
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Port Said, Egypt.

Hour.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.,	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.							a								
1		Sev'l. S	W. N. W.	4			30.02	68	64	62		b.c.g.	cum. nim.	3	J.
2			"	4			30.02	68	64	66		"	"	5	"
3			"	4			30.02	68	64	61		"	"	5	"
4			"	3-4			30.02	68	64	62		"	"	7	"
5			"	3			30.02	68	64	60		b.c.	cum	8	"
6			"	2			30.02	68	64	60		"	"	5	"
7			"	2			30.02	68	64	61		"	"	5	"
8		In Canal	W. S. W.	2			30.06	68	64	62	70	"	cir. cum.	2	"
9		"	S. W.	3			30.08	69	64	63	70	"	"	2	"
10		"	"	3			30.08	68	66	63	70	"	"	5	"
11		"	"	3			30.08	69	68	63	70	"	"	5	"
Noon.		"	West	3			30.08	71	70	64	70	"	"	6	"

Course and distance made good since preceding noon by observations, knots tenths.

Dg. 1026 Position at Noon: Latitude by D. R. ° ' "
Longitude by D. R. ° ' "
Latitude by observations of ⊙ ° ' "
Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "
Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "
Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 325 gallons.

Water Distilled during the preceding 24 hours, 925 "

Water remaining on hand fit for use at Noon, 1650 "

Coal consumed during the preceding 24 hours, 4 tons 350 lbs.

Coal remaining on hand at Noon, 137 " 2020 "

P. M.								
1	South	West	2	30.04	24	64	70	b.c. cum. 6 J.
2	"	"	2	30.04	24	64	70	" " 6 "
3	"	"	2	30.04	24	64	72	" " 6 "
4	S. W. by S.	"	2	30.04	24	64	72	" " 6 "
5	S. S. E. by S.	W. N. W.	2	30.04	23	64	70	" cir. 2 "
6	South	"	2	30.04	23	64	70	" " 2 "
7	"	"	2	30.04	24	64		" " 4 "
8	"	N. W.	2	30.14	64	63		" " 2 "
9	"	"	2	30.26	68	63		" cir. 9 "
10	"	"	2	30.26	68	63		" " 9 "
11	"	"	2	30.26	68	60		" " 9 "
Mid.	"	"	2	30.26	63	59		" " 9 "

under the command of Commander T. F. Jewell, U. S. Navy,

Sunday October 31st, 1886

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences Calm 4 A. M.

Clear & cool. Breezy in moderate squalls from W. N. W. at 1 P.M. Started fires in four boilers. Ensign Pendleton U. S. N. returned from leave. Distilling.

C. F. Pendleton
Ensign U. S. N.

From 4 to 8 A. M.

Clear cool & pleasant. South decreasing breeze from W. N. W. hauling to W. S. W., on entering the Canal. Rigged in boats & got ready for mooring. At 7.5 Canal Pilot came on board. Tripped lines at 7.20 & entered Canal at 7.30. Draft of Ship for'd 14 feet, amid. 15 feet, aft 16 feet. Found Walter Dooley, Lds, absent without leave.

H. Helgearing
Ensign U. S. N.

From 8 A. M. to Meridian.

Cloudy, cool weather. Light breezes from S. W. & West. Standing through Suez Canal under charge of pilot. Passed K. 14 (Ras-el-Esh) at 8:55, K. 24 at 9:50. At 10:05 hauled into siding at K. 34 (Gap) in obedience to signal. Went ahead again at 11:25. At 12:00 Ship abreast Post 22 P. Working engines at pilot's direction.

B. T. Waring
Asst Surg U. S. N.

From Meridian to 4 P. M.

Clear & pleasant. Light breeze from West. Standing through Suez Canal in charge of pilot. By direction of Commdg Officer placed Cadet Engineer J. Arbuckle U. S. N. under suspension for being under the influence of liquor. Also placed W. F. Jaegers, Ja. app. 2 C, in solitary confinement, on bread & water for two days for profanity. At 2.00 disconnected two boilers.

C. A. Traverton
Ensign U. S. N.

From 4 to 6 P. M.

Fair & cool. Light breeze from W. N. W. Standing through Canal, pilot in comm. At 4.0 off Ismalia, pilot from Port Said left the Ship; pilot from Ismalia to Suez, came on board at 5.30 moored to West bank of canal. 46.3 miles from Port Said. Banked fires.

C. O. Galloway
Asst U. S. N.

From 6 to 8 P. M.

Cloudy & cool. Light N. W. breeze. At 6.15 began distilling.

H. Helgearing
Ensign U. S. N.

From 8 P. M. to Midnight.

Clear cool weather. Ship tied up to Western bank of Suez Canal. Fires banked. Distilling. Moon set at 8:10.

B. T. Waring
Surg U. S. N.

Examined and found to be correct.

A. V. Wadhams
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in Suez Canal.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				South	S.W.	2			30.106		62	56		b.c.	cum	3	S.
2				"	"	2			30.106		62	56		"	"	3	"
3				"	"	2			30.106		62	56		"	"	3	"
4				"	"	2			30.106		62	56		"	"	3	"
5				"	"	1			30.106		58	56		"	str	9	"
6				S.S.E.	"	1			30.106		59	56	70	"	cir	8	"
7				E.S.E. 1/4 E.	"	2			30.116		65	56	71	"	cir cum	8	"
8				S.E.	South	2			30.146		56	56	70	"	"	8	"
9				S.S.E.	Calm	0			30.176		66	56	68	"	"	9	"
10				Tid Up.		0			30.180		70	65	68	"	"	9	"
Obs. 1043 11				S. 1/2 W.	West	2			30.184		72	65	68	"	"	6	"
N 30° Noon.				"	"	2			30.164		73	65	68	"	"	5	"
E 32° 35'																	

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Obs. 1043 Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 325 gallons.

Water Distilled during the preceding 24 hours, 115 "

Water remaining on hand fit for use at Noon, 2350 "

Coal consumed during the preceding 24 hours, 5 tons 1190 lbs.

Coal remaining on hand at Noon, 132 " 820 "

P. M.														
1				S.W. by S.	N.W.	2	30.134	65	64	68	b.c.s.	cir cum	5	S.
2				S by W.	"	2	30.145	65	64	68	"	"	5	"
3	3	9	98.3	S. 3/4 W.	South	1	30.135	65	64	72	"	"	5	"
4	8	1	6.4	"	"	1	30.145	64	64	72	"	"	3	"
	6	0	12.6											
5	2	0	14.8	S by E. 1/4 E.	E. by S.	1	30.144	43	42	65	"	cum str	3	"
6	2	8	16.	"	"									
	5	6	22.2	S. by E. 3/4 E.	N. by W.	2-4	30.144	42	41	65	"	"	4	"
7	9	4	31.9	"		3	30.164	41	40	75	"	"	4	"
8	9	5	41.4	"	E. N. E.	4	30.124	41	40	75	"	"	4	"
9	10	1	52.5	"	N. E.	4	30.123	41	40	74	b.c.	"	4	"
10	9	8	61.5	"		4	30.124	41	40	74	"	"	8	"
11	10	1	71.4	"	N. E. by N.	4	30.134	41	40	73	"	"	8	"
Mid.	9	4	81.1	"	North	4	30.154	41	40	73	"	"	8	"

under the command of Commander T. F. Jewell, U. S. Navy,

Monday November 1st, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends at 4 A.M.

Clear and cool. Bright starlight. Light breeze from S.W. Moored to bank of Canal. Secretary.

A. F. Fechteler
Ensign U. S. N.

From 4 to 8 A.M.

Clear and cool. Light breeze from S.W. at 5:20, cast off lines and stood out, pilot at conn. at 6 entered Bitter lake. at 6:50 passed light-house and steered course S. & E. at 8 passed light-house and entered line of buoys South of great Bitter Lake. Passed two steamers while in the lake. at 7:25 stopped distilling and hauled in boilers for steaming.

C. D. Galloway
Asst Engr U. S. N.

From 8 A.M. to Meridian.

Fair and warm. Calm first two hours. Last two hours, a light breeze from West. In charge of Canal Pilot. Stood through the Bitter Lakes and at 9:45 tied up at "Gare" K, 133. to allow three steamers to pass. Slipped lines at 10:5. Quarters at 10:30 and inspected bags and rifles. Clothing list. Seconds drum exercised at great guns. At 11:00 passed a steamer "Gare". At 12:00 tied up at "Gare" K, 152, to allow passage for the English Troopship "Euphrates". Lying at Gare at end of watch.

H. C. Gearing.
Asst U. S. N.

From Meridian to 4 P.M.

Hazy, pleasant weather. Light breeze from N.W. and light airs from South. Hauled out of siding at K, 152 at 12:28 and stood on through Canal. At 1:20 passed Revs. U. S. Consular Agents at Suez visited the ship. At 1:26 Pilot left. Stood out into Red Sea under foresail and reefed mainsail. Set Foresail, fore and main topsails at 1:50 and went ahead full speed. Took them in at 2:15 at 2:25 set clock, ahead 5 minutes. At 2:40 took departure Newport Rock Lt. Ship, bearing N. by E, distant 2½ miles: first over patent log registering 95.3. Set course S. 3/4 W. By order of Bureau Office Cadet-Eng Colon Arnold U. S. N was temporarily released from suspension for duty: by same order confined F. Snider, First Class Appl, for third day on bread and water for profanity. At end of watch Barn Harbore E. by S. Cape Ras Gemsa S. S. E. by E. at 3:32, lost sight of Newport Rock Light-ship, bearing N. by E. Water smooth, Las, was declared a diviter

H. G. Waring
Asst U. S. N.

From 4 to 6 P.M.

Generally clear, hazy about horizon. Cirro-stratus clouds. Light airs from E.N.E. first hour, shifting afterwards to N. by W. in light to moderate breeze. Smooth sea. At 4:45 changed course to S. by E. ½ E. At 5:12 changed to S. by E. 3/4 E. Patent log 16.0 under steam alone. Steam 50 Revolutions.

A. F. Fechteler
Ensign U. S. N.

From 6 to 8 P.M.

Clear and pleasant. Gentle breeze from N.N.W. shifting to E.N.E. and increasing to a fresh breeze. Made sail to topsails, sent light sails, crossed light-yards, set J gaff-sails, Jib, f.t. Staysail and main Topsail. At 6:50 sighted Zafarana Light-bearing (psc) S. ¼ W. At 8:02 Zafarana light-house S.W. ¼ W.

C. D. Galloway
Asst U. S. N.

From 8 P.M. to Midnight.

Clear, cool and pleasant. Moderate breeze from N. E. to South. Ship moved. Standing down the Gulf of Suez. Sail to both sails and stood. Passed two steamers bound N. & S. At 9:20 lost sight of Zafarana Light-bearing N.W. by N. At 11:20 sighted Jaf Shoal Light bearing S. by E. ½ E. This light-house S. ½ E., at 12:00. Course S. by E. 3/4 E. Distilling.

Examined and found to be correct.

H. C. Gearing.
Asst U. S. N.

A. T. Mahan
Asst Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Standing down Gulf of Suez.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	9	5	90.6	S by E. 3/4 E.	N.W. by N.	4			30.14	72	70	65	75	b cy.	cum str	8	
2	8	7	100.2	S. E. by S.	"	4			30.12	71	70	65	75	"	"	8	"
3	9	4	9.8	"	"	4			30.12	71	70	65	74	"	"	6	"
4	10	8	19.4	S. E. 1/2 S.	"	4			30.11	72	70	66	74	"	"	5	"
5	10	0	30.3	"	N.W. by W.	4-5			30.10	71	70	66	74	b c	"	5	"
6	10	4	40.7	S. S. E.	N.W.	5			30.10	71	70	66	74	"	"	5	"
7	8	6	50.3	S. by E. 1/2 E.	"	5			30.10	70	70	66	74	"	"	6	"
8	10	0	60.3	"	"	5			30.10	72	70	66	74	"	"	8	"
9	10	8	70.5	S. by E. 1/2 E.	"	5-6			30.12	74	70	67	74	b c f.	cir	8	"
10	8	0	78.6	"	"	5-6			30.13	74	69	70	74	"	"	8	"
11	7	2	86.8	"	N. N. W.	5-6			30.10	74	75	69	74	"	cir	9	"
Noon.	7	0	93.7	"	"	5-6			30.10	74	75	69	74	"	"	9	"

Course and distance made good since preceding noon by observations, S. S. E. 1/2 E. 196 knots. tenths.

04.1043

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ N 24 ° 11 ' "
- Longitude by chronometer from Forenoon Observations of ⊙ E 34 ° 11 ' "

Position at 8 a. m.:
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.:
- Latitude by D. R. N 26 ° 16 ' "
- Longitude by Chro P.M. E 34 ° 44 ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 5h 41m "S.S.E. 1/2 E. W 14 ° 14 ' "

Water expended during the preceding 24 hours, 325 gallons.

Water Distilled during the preceding 24 hours, 825 "

Water remaining on hand fit for use at Noon, 2850 "

Coal consumed during the preceding 24 hours, 8 tons 620 lbs.

Coal remaining on hand at Noon, 124 " 310 "

P. M.											
1	7	7	1.4	S.S.E. 1/2 E.	N.N.W.	6	0	30.06	72	70	none 10
2	8	3	9.7	"	N.W. by N.	6	0	30.04	72	72	" 10 "
3	8	2	17.9	"	"	6	0	30.02	72	72	" 10 "
4	7	9	25.8	"	N. by W.	6	0	30.02	72	72	" 10 "
5	8	0	33.8	"	N. N. W.	5		30.01	72	72	" 10 "
6	7	2	41.0	"	"	4		30.02	72	72	" 10 "
7	6	6	48.2	S by E.	N.W. by N.	4-5		30.04	72	72	" 10 "
8	6	6	56.1	S E by S	"	4-5		30.06	72	72	" 10 "
9	8	0	64.1	"	N W	5		30.06	72	72	" 10 "
04.1044 N 26°01' 10	8	0	72.2	"	"	5		30.06	72	72	" 10 "
E 35° 11	8	0	79.7	"	"	5		30.06	72	72	" 10 "
	Mid.	8	0	88.	"	"	5		30.06	72	72	" 10 "

under the command of Commander T. F. Jewell, U. S. Navy,
Tuesday November 2d, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M.

Clear pleasant weather, hazy over the land & around the horizon. Moderate breeze from N. W. & North. at 12.20 stopped distancing & hauled fires in & 2d & 4 boilers. at 1.07 changed course to S. E. by S, patent log reading 91.7. at 1.20 Ras-el-Shabin Light-House bore ahead, distant 4 miles: at 3.00 Lit. bore N. W. 3/4 N. & at 3.19 patent log reading 12.7, lost sight of the light bearing N. W. 1/8 W. at 3.15 made high land of Zafarana Hills bearing S. S. E. 3/4 E. at 3.29 changed course to S. E. 3/4 S. & at 3.35 to S. E. 1/2 S. standing down Gulf of Suez under steam & plain sail to T. G. sails, save Mainsail & Spanker. At 4.00 made town of Ashrafi Ids. Light House bearing (approx) S. E. by S. Steam 50. Revolutions 43.5.

B. F. Walling
Lieut U. S. N.

From 4 to 8 A. M.

Partly clear bright & pleasant. Few cirro clouds. Moderate to stiff breeze from N. W. by W. & N. W. Moderate following sea. At 5.00 changed course to S. S. E. Patent log 30.3. At 6.00 changed course to S. by E. 1/2 E. Patent log 40.1 & at 6.10 to S. E. by S. Patent log 42.3. At 6.17 Ashrafi Ids Lt. House bore, abeam, P. L. 43.6. at end of watch under steam & Jib & fore & aft sails to t'gallant sails with fit & f. & aft sail, on course S. E. 1/2 S. Light-House, out of sight. Lighted two wrecks, a steamer on starboard hand & a sailing vessel on port.

E. A. Degraw
Ensign U. S. N.

From 8 A. M. to Meridian

Clear, cool, hazy & pleasant. Stiff to fresh breeze from N. W. at 8.20 Shadwan Island bore (pc) North, extremity W. S. W. 5/8 W. South extremity S. 1/2 E. Took departure & changed course to S. S. E. 1/2 E. at 8.40 banked fires, uncoupled propeller. At 9.20 inspected at quarters 1st & great guns, 3d Div. Rifles, 2d Div. great guns, Eng. Div. Rifles. At 9.05 south point of Shadwan Island bore (pc) W. S. W. 1/8 W. distant 3 1/4 miles. At 12.00 mount Jebel Zeit bore W. 3/4 S.

T. D. Galloway
Lieut U. S. N.

From Meridian to 4 P. M.

Clear & pleasant. Fresh breeze from N. W. by N to N. by W. Moderate sea with the wind. At 1.20 exercised the Engineers Force at Infantry. Equipped Infantry company with accoutrements for shore service & exercised artillery crews at 3 in B. L. Howitzer & Gatling Gun. At 2.10 set the Royals. Course S. S. E. 1/2 E. Under Jib & square sail to Royals & fore & aft Mainsail.

N. E. Gearing
Lieut U. S. N.

From 4 to 6 P. M.

Pleasant weather. Hazy over the land. Moderate to stiff breezes from N. N. W. Under plain sail to Royals save Mainsails, Spanker & Flying Jib. At 5.00 sighted Brothers Lt. bearing S. E. 1/2 E. Banked fires.

B. F. Walling
Lieut U. S. N.

From 6 to 8 P. M.

Clear, bright, moonlight, pleasant. Moderate to stiff breeze from N. W. by N. Moderate following sea. At 6.08 changed course to S. by E. Patent Log 11.6. At 7.45 changed course to S. E. by S. Patent Log 52.2 Brothers light bearing, abeam. At end of watch under square sail to Royals with Jib. On course S. E. by S. Brothers Light-house (pc) N. E. by E. at end of watch.

A. T. Beckett
Ensign U. S. N.

From 8 P. M. to Midnight

Clear & pleasant. Fresh to very fresh breeze from N. W. Moderate sea. At 9.35 lost sight of Brothers light bearing N. by W. 5/8 W. at 10.00 moored.

Examined and found to be correct.

T. D. Galloway
Lieut U. S. N.

A. V. Wadhams Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Seamaking passage to Aden, Asia.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a								
1	8	2	96.2	S.E.by.S.	N.W.by.N.	5	0		30.04	76	76	72	78	b.	none	10	
2	7	6	38	"	"	5	0		30.03	76	76	72	78	"	"	10	
3	7	9	11.7	"	"	5	0		30.02	76	76	72	77	"	"	10	"
4	7	5	19.2	"	"	5	0		30.02	76	75	72	77	"	"	10	"
5	7	0	26.2	"	"	4			30.02	76	75	74	77	b.y.	"	10	"
6	6	8	33.	"	"	4			30.03	76	75	73	77	"	"	10	"
7	6	7	39.7	"	"	4			30.04	76	75	72	77	"	"	10	"
Dy.1063 N 25° 8	6	9	46.6	"	"	3-4			30.06	78	80	75	77	"	"	10	"
235.64 9	6	2	52.8	S.S.E.1/2 E.	"	4			30.08	79	79	76	78	"	"	10	"
10	6	2	58.9	"	"	4			30.09	80	80	76	78	"	"	10	"
11	6	0	64.9	"	"	4			30.09	80	79	76	78	"	"	10	"
Noon.	5	3	70.2	"	"	4			30.06	80	79	76	78	"	"	10	"

Course and distance made good since preceding noon by observations, S.E.3/4 S. 124 knots. 9 tenths.

Dy 1063

Position at Noon:
- Latitude by D. R. — N. 24. 48. "
- Longitude by D. R. — E. 36 . 04. "
- Latitude by observations of ⊙ — N. 24 . 46. "
- Longitude by chronometer from Forenoon Observations of ⊙ — E. 36 . 04. "

Position at 8 a. m.
- Latitude by D. R. — N. 23 . 06. "
- Longitude by Chro " " " — E. 35 . 52. "

Position at 8 P. M.
- Latitude by D. R. — N. 24 . 01. "
- Longitude by Chro P. M. " " — E. 36 . 43. "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 7h 53m " S.E.by.S 23 1/2 ° ' "

Water expended during the preceding 24 hours, 32 1/2 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2472 1/2 "

Coal consumed during the preceding 24 hours, 1 tons 1490 lbs.

Coal remaining on hand at Noon, 122 " 460 "

P. M.																	
1	6	0	76.2	S.S.E.1/2 E.	N.N.W.	5			30.05	81	80	78	82	h.cum. circum		8	N
2	6	5	82.5	"	"	5			30.05	82	81	79	82	"	"	8	"
3	6	4	88.9	"	"	5			30.05	81	81	79	82	h.	none	10	"
4	6	4	95.6	"	"	5			30.02	80	80	78	83	"	"	10	S
5	6	8	2.4	"	"	5	0		30.02	80	79	78	83	"	"	10	"
6	6	1	9.5	"	North	6	1		30.03	79	79	78	83	"	"	10	N
7	4	3	16.8	"	"	5			30.03	79	78	79	83	"	"	10	"
8	4	1	23.9	"	"	5			30.03	79	79	78	83	"	"	10	S
9	4	0	31.0	"	N.by.E.	5			30.05	80	79	78	82	"	"	10	"
10	4	4	37.1	"	N.N.E.	4			30.06	79	80	78	82	"	"	10	"
11	6	0	43.1	"	North	4			30.06	79	80	79	82	"	"	10	"
Mid.	6	0	48.7	"	N.by.W.	4			30.06	79	80	79	82	"	"	10	"

under the command of Commander T. F. Jewett, U. S. Navy,

Wednesday November 3d, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences Unto 4 A M.

Clear. Starlight. Fresh breze from N. W. by N. a moderate following sea. Steering course S. E. by S. Sail, about, as, chang in sail carried.

N. C. Gearing.
Lieut U. S. N.

From 4 to 8 A. M.

Clear and pleasant. Hazy around horizon. Gentle to moderate breze from N. W. by N. Moderate following sea. Ship rolling and pitching easily, though at times deeply. At 7.15 made Sandalus Shoal Lt. House from aloft bearing (apprx) South. At 8 sighted it from the deck bearing S. S. W. ½ W. Under plain sail to Royals, save Mainsail and Spanker. Steering a course S. E. by S. Fires banked.

B. F. Walling
Lieut U. S. N.

From 8. A. M. to Meridian.

Clear, bright and pleasant. Slightly hazy about horizon. Moderate breze from N. W. by N. Moderate sea. At 8.15 changed course to S. S. E. ½ E. Patent log 48. Released from confinement F. Snyder 1C. apf, and C. Wiler Ldr, the term for which they were confined having expired. By order of Comdg Officer put F. Snyder 1C. apf, in double irons for 5 days for overhauling a bag not his own and J. Phillips Sea Apf 2C, on bread and water for two days for Insolence. At end of watch under square sail to Royals and jib on course S. S. E. ½ E. At 9.30 inspected, at quarters and exercised 1st Div. Great Guns, 2d Div. at Great Guns, 3d Div at Single Sticks, Powder Div. at Stations.

A. T. Dechman
Ensign U. S. N.

From Meridian to 4 P. M.

Clear, warm and pleasant. Stiff breze from N. N. W. Ship rolled

L. D. Galloway
Lieut U. S. N.

From 4 to 6 P. M.

Clear and pleasant. Stiff to fresh breze from N. N. W. to North. Smooth sea. No change in sail. Course S. S. E. ½ E.

N. C. Gearing
Lieut U. S. N.

From 6 to 8 P. M.

Clear, pleasant weather. Stiff breze from North. Under plain sail to Royals save Mainsail and Spanker, on course S. S. E. ½ E. Fires banked. Moderate following sea. Ship rolling and pitching easily.

B. F. Walling
Lieut U. S. N.

From 8. P. M. to Midnight.

Clear and pleasant, bright moonlight. Moon set at 11.53. Stiff breze first hour from N. by E. falling to moderate breze from N. N. E. to N. by W. at 9.30 Set Main Trysail at 10.45 took in main trysail. Smooth sea. Ship steady. At end of watch on course S. S. E. ½ E. under square sail, except mainsail with lift.

A. T. Dechman
Ensign U. S. N.

Examined and found to be correct.

A. V. Wadhams. Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

at Harmaking passage to Aden, Asia.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a								
1	5	8	54.5	S.S.E.1/2 E.	N.N.W.	4			30.04	80	79	78	81	b.	cume	10	S.
2	5	9	60.4	"	"	4			30.05	79	78	78	81	"	"	10	"
3	6	4	66.8	"	"	3			30.05	79	78	78	81	"	"	10	"
4	6	1	72.4	"	"	3			30.03	79	78	78	81	"	"	10	"
5	6	5	79.4	"	"	4	0		30.03	79	78	78	82	"	"	10	"
6	6	3	85.7	"	"	4	0		30.04	79	80	78	82	"	"	10	"
7	6	2	92.3	"	"	4	0		30.05	80	80	78	81	"	"	10	"
8	6	3	98.6	"	"	4	0		30.04	82	80	78	81	"	"	10	"
9	6	8	5.4	"	"	4			30.09	82	81	78	81	"	"	10	"
10	6	5	11.9	"	"	4			30.09	82	81	78	81	"	"	10	"
11	5	4	17.6	"	"	4			30.04	82	81	78	82	"	"	10	"
Noon.	5	9	23.5	"	"	4			30.06	82	81	78	84	b.	cir	9	"

Course and distance made good since preceding noon by observations, S.W. by S. 148 knots. tenths.

Dy. 1063

Position at Noon:
- Latitude by D. R. N 22 ° 38. "
- Longitude by D. R. E 32 ° 39. "
- Latitude by observations of ⊙ N 22 ° 44 "
- Longitude by chronometer from Forenoon Observations of ⊙ E 32 ° 36. "

Position at 8 a. m.:
- Latitude by D. R. N 23 ° 06. "
- Longitude by Chro do do do E 32 ° 20. "

Position at 8 P. M.:
- Latitude by D. R. N 22 ° 09. "
- Longitude by Chro P.M. do do E 32 ° 06. "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 8h 11m " S.S.E.1/2 E. W 4. 40. "

Water expended during the preceding 24 hours, 345 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2150 "

Coal consumed during the preceding 24 hours, 1 tons 1020 lbs.

Coal remaining on hand at Noon, 120 " 1980 "

P. M.																	
1	5	8	29.2	S.S.E.1/2 E.	N.N.W.	4			30.06	83	82	78	84	b.	cume	10	S.
2	5	6	34.8	"	"	4			30.02	84	83	78	85	"	"	10	"
3	5	6	40.1	"	"	4			30.00	84	83	78	85	"	"	10	"
4	5	8	45.9	"	"	4			30.01	83	82	78	83	"	"	10	"
5	5	2	50.5	"	"	4			30.01	83	81	78	84	"	"	10	"
6	5	0	55.4	"	N.W.	3			30.02	83	81	78	84	b.c.	cir	9	"
7	4	8	60.2	"	"	3	1.5		30.03	82	81	78	84	b.	cume	10	"
8	5	8	65.5	"	"	3	1.5		30.04	82	81	78	84	"	"	10	"
9	4	6	71.1	S.S.E.1/2 E.	N.N.W.	3			30.04	82	81	78	85	"	"	10	"
10	5	5	76.6	"	"	3			30.03	82	81	78	85	"	"	10	"
11	5	4	82.3	"	"	3			30.03	82	81	78	85	"	"	10	"
Mid.	5	6	87.9	"	"	3			30.02	82	81	78	85	"	"	10	"

under the command of Commander T. F. Jewell, U. S. Navy,
Thursday November 1st, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Cutts 4 A. M.
Clear and warm. Cutts to moderate breeze from N. N. W. Observed several flashes of lightning along Southern horizon, also many small meteors. Sea smooth. Ship rolling easily.

E. D. Galloway
Lieut U. S. N.

From 4 to 8 A. M.
Clear and pleasant. Moderate breeze from N. N. W. Sea smooth. No change in sail. Course S. S. E. ½ E.

H. McGowan
Lieut U. S. N.

From 8 A. M. to Meridian
Clear and pleasant. Moderate breeze from N. N. W. at 9.30 inspected at Quarters and exercised as follows: Engineers and C. Divisions at Rifles 1st 2d 3d and Powder Divisions at Horse Signals. Examined Gun Cotton charges and primers found them in good condition.

P. F. Harris
Lieut U. S. N.

From Meridian to 4 P. M.
Clear, bright and warm. Moderate breeze from N. N. W. Smooth sea. At 1.25 had Battalion Drill. At end of watch, on course S. 9 E. ½ E, under square sail except Mainsail and Jib.

A. P. Nichols
Ensign U. S. N.

From 4 to 6 P. M.
Clear and warm. Fresh breeze from N. N. W., shifting to N. W. and falling light. Sea smooth. Cutts astern.

E. D. Galloway
Lieut U. S. N.

From 6 to 8 P. M.
Clear, dry weather. Fresh N. W breeze. No change in sail. Course S. S. E. ½ E.

H. McGowan
Lieut U. S. N.

From 8 P. M. to Midnight
Clear pleasant weather. Fresh breeze from N. N. W. Moderate following sea. At 8:17 changed course to S. E. ½ E, patent log registering 6 ½ knots. Under plain sail to Royals and Main sail, and Spanker. Fires banked.

P. F. Harris
Lieut U. S. N.

Examined and found to be correct.

A. V. Wadhams
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d. Rate,

At Sea making passage to Aden, Asia.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	5	8	93	S. by E. 1/2 E.	N. N. W.	4			30.00	82	81	76	85	L.	nimbus	10	S
2	5	4	98.4	"	"	4			30.00	82	81	75	85	"	"	10	"
3	5	2	103.8	"	"	4			30.00	82	81	75	85	"	"	10	"
4	5	6	109.5	"	"	4			30.00	82	81	75	85	"	"	10	"
5	6	0	15.5	"	"	4			30.00	82	81	75	85	"	"	10	"
6	5	5	21.	"	"	3			30.01	82	81	76	85	b.c.	cir cum	8	"
7	6	0	27.	"	North	3			30.01	82	81	76	85	"	"	8	"
8	5	5	32.5	"	"	3			30.03	82	82	76	85	"	"	8	"
9	5	4	38.2	"	"	3	1.5		30.05	84	83	74	85	"	"	9	"
10	5	2	43.4	"	N. by E.	3	1.5		30.06	84	83	74	85	"	"	9	"
11	4	6	48.	"	"	3	1.5		30.05	84	83	76	85	"	"	8	"
Noon.	5	0	53.1	"	"	3	1.5		30.03	84	83	76	85	"	"	9	"

Course and distance made good since preceding noon by observations, S. 9E. 1/4 E. 11.5 knots tenths.

Position at Noon: Latitude by D. R. N 20 . 49 . "
Longitude by D. R. E 38 . 34 . "
Latitude by observations of ⊙ N 21 . 00 . "
Longitude by chronometer from Forenoon Observations of ⊙ E 38 . 28 . "

Position at 8 a. m. Latitude by D. R. N 21 . 19 . "
Longitude by Chro. E 38 . 20 . "

Position at 8 P. M. Latitude by D. R. N 20 . 15 . "
Longitude by Chro. E 38 . 42 . "

Current during the time, knots 5 tenths per hour, setting to the N. W. 1/2 W.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 8h 03m " S. by E. 1/2 E. W 4 . 18 . "

Water expended during the preceding 24 hours, 32.5 gallons.

Water ——— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1725 "

Coal consumed during the preceding 24 hours, 1 tons 3.60 lbs.

Coal remaining on hand at Noon, 119 " 1620 "

P. M.												
1	5	8	58.9	S. by E. 1/2 E.	S. E. by E.	4		30.01	84	83	hazy	cir	9	S.
2	5	8	64.7	"	"	4		29.98	86	85	78	86	"	"	9	"
3	6	1	70.8	"	"	4		29.96	85	84	79	86	"	"	9	"
4	6	1	76.9	"	"	4		29.95	84	84	79	86	"	"	9	"
5	6	0	83.	"	"	4		29.94	84	83	79	86	"	cir	9	"
6	6	0	89.	"	"	4		29.94	84	83	79	86	"	"	8	"
7	6	1	95.1	"	N. by W.	4		29.98	84	83	79	86	"	"	8	"
8	6	2	101.3	"	"	4		30.00	84	83	79	85	"	"	8	"
9	6	3	7.6	"	"	4	1.5	30.01	84	83	79	85	"	"	8	"
10	6	3	13.9	"	"	4	1.5	30.01	84	83	79	84	"	"	8	"
11	6	9	20.8	"	"	4	1.5	30.00	84	83	80	84	"	"	8	"
Mid.	6	5	27.3	"	"	4	1.5	30.00	84	83	80	84	"	"	8	"

Dy 1067 N 20° E 38..44

under the command of Commander T. F. Jewell, U. S. Navy,

Friday November 5th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends at 4 A. M.

Clear bright warm. Moon showing till 12h 5m when it set a number of brilliant meteors fell during watch. Moderate breeze from N. N. W. Smooth sea. At end of watch ship, on course S. by E. ½ E. under square sail except Mainsail.

C. A. Gayton
Ensign U. S. N.

From 4 to 8 A. M.

Clear and pleasant. Light to moderate breeze from North. Unpowerth. Same sail.

Lieut. Galloway
Lieut U. S. N.

From 8 A. M. to Meridian

Clear, dry and pleasant. Light breeze from N. by E. Sea smooth. At 9h 30m Quarters for Inspection then had General Quarters. Divisions reporting ready at Lookout: 1st 2m 5s, 2d 2m 5s, 3d 0. 30, Mar 2m 5s, Prov 1m 40, Engr 5s, Marines 1m 50. Lighted the flood cocks of shell room and magazine and found them in good order. No change in sail. Course S. by E. ½ E.

H. H. Gerrish
Lieut U. S. N.

From Meridian to 4 P. M.

Clear and warm. Light breeze from N. by E. At 1.10 exercised at Fire Quarters 2 streams in 50 seconds last stream in 2m 10s. Passed a steamer standing to N. and W. Light following sea. Under plain sail to Royals save Mainsail and Spanker. Steering a course S. by E. ½ E. By order of Comdg Officer released R. W. Phillips, Seaman 2 C, expiration term of confinement.

D. H. Watkins
Lieut U. S. N.

From 4 to 6 P. M.

Generally clear, bright warm. Cir-st clouds. Moderate breeze from N. by E. Smooth sea. At 5h 30m sighted a steamer two points on port bow. At end of watch on course S. by E. ½ E. under square sail except Mainsail. Steamer bearing broad off port bow.

C. A. T. Gayton
Ensign U. S. N.

From 6 to 8 P. M.

Clear and warm. Light clouds along horizon to the N. W. Sea smooth. Light breeze. Moderate breeze from N. by W. By order of Comdg Officer Seaman F. A. Drake, Ldr, in double irons for five days for skylarking in Storage country.

Lieut Galloway
Lieut U. S. N.

From 8 P. M. to Midnight.

Clear, dry and warm. Moderate breeze from N. by W. Passed a steamer bound North at 11h 0m. No change in sail. Course S. by E. ½ E.

H. H. Gerrish
Lieut U. S. N.

Examined and found to be correct.

D. H. Watkins.
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to Aden, Asia

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a								
1	6	3	33.6	S by E 1/2 E	N by W	4			29.98	84	83	80	84	b c g	cir	9	S
2	6	0	39.6	"	"	4			29.97	84	83	80	85	"	"	9	"
3	6	0	45.6	"	"	3-4			29.96	84	83	80	85	" l	"	9	"
4	5	5	51.1	"	"	3			29.96	84	83	80	86	"	"	9	"
5	5	6	56.7	"	N N E	4			29.98	84	82	80	86	b c l	cir cum	9	"
6	5	4	62.3	"	"	4			29.98	84	82	80	86	"	cir cum	9	"
7	5	6	68.0	"	"	4			30.00	84	82	80	86	b c	"	8	"
8	6	0	73.1	"	"	4			30.00	84	82	80	86	"	"	8	"
9	4 1	4 3	77.5 78.8	S by E 1/2 E	"	3			30.03	84	83	80	84	"	"	6	"
10	5	2	84.	"	N E by E	3			30.03	84	84	80	84	"	"	6	"
11	4	4	88.4	"	"	3			30.03	84	84	82	84	"	"	4	"
Noon.	4	4	93.1	"	"	3			30.00	84	84	83	84	"	"	3	"

Course and distance made good since preceding noon by observations, S S E 126 knots tenths.

Dg. 1047

Position at Noon:
- Latitude by D. R. N 18 . 52 . "
- Longitude by D. R. E 39 . 28 . "
- Latitude by observations of ⊙ N 19 . 03 . "
- Longitude by chronometer from Forenoon Observations of ⊙ E 39 . 16 . "

Position at 8 a. m.:
- Latitude by D R. N 19 . 20 . "
- Longitude by Chron " " " E 39 . 05 . "

Position at 8 P. M.:
- Latitude by D R. N 18 . 23 . "
- Longitude by Chron " P M. " E 39 . 40 . "

Current during the time, knots 6 tenths per hour, setting to the N W.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 8h 02m " S by E 1/2 E W 4 . 12 . "

Water expended during the preceding 24 hours, 450 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1345 "

Coal consumed during the preceding 24 hours, 1 tons 910 lbs.

Coal remaining on hand at Noon, 118 " 410 "

P. M.													
1	4	0	99.1	S S E 1/2 E	N E	3	2	29.99	85	85	79	84	b c	Cumulus	6	S
2	3	9	103.	"	"	4	2	29.99	86	85	79	84	"	"	5	"
3	5	3	108.3	"	"	4	1	29.99	86	85	79	84	"	"	4	"
4	4	4	112.7	"	"	2	1	29.99	86	86	80	84	"	"	4	"
5	4	1	116.8	"	"	2		29.99	86	85	79	84	"	"	4	"
6	4	5	121.3	"	"	3		29.99	86	85	79	83	"	"	4	"
7	4	0	125.3	"	"	2-3		29.99	86	85	79	84	"	"	8	"
8	4	2	129.5	"	"	2-3		30.00	86	85	79	84	b c l	Cirrocum	6	"
9	4	2	133.7	"	"	2-3		30.00	86	85	80	84	"	"	4	"
10	4	2	137.9	"	N N E	2-3		30.01	85	85	80	84	"	"	4	"
11	4	1	142.0	"	"	2		30.01	85	85	80	84	" m	"	8	"
Mid.	4	1	146.1	"	N by W	2		30.01	85	85	80	83	b c l	"	8	"

under the command of Commander T. F. Jewell, U. S. Navy,
Saturday November 6th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M.

Clear and warm, hazy first two hours. Lightning to S. latter part of watch. Moderate to gentle decreasing breeze from N. by W. Moderate sea from North. Sea smooth. Steering a course S. by E. 1/2 E. under plain sail to Royals save Mainsail and Spanker. Ship rolling easily from 3° to 5°. Moon set at 1.15.

S. T. Young
Lieut U. S. N.

From 4 to 8 A. M.

Partly clear bright and warm. Cumulus and cirro cumulus clouds. Lightning to S. and E. Moderate breeze from N. N. E. Smooth sea. Sighted three steamers during watch. At end of watch, on course S. by E. 1/2 E, under Square sail and Jib. Set Foretop.

C. S. T. Young
Ensign U. S. N.

From 8 A. M. to Meridian.

Cloudy and warm. Gentle breeze from N. E. by E. Sea smooth. At 8h changed course to S. S. E. 1/2 E. Two steamers passed standing to N. Exchanged colors with British steamer "Erin". Made all fore and aft sail except Fore Topmast Staysail.

C. D. Galloway
Lieut U. S. N.

From Meridian to 4 P. M.

Clear, dry and warm. Gentle to light breeze from N. E. Sea smooth. At 2h. spread fires under the four after boilers and went ahead on engines. At 2h 4m. No change of sail. Course S. S. E. 1/2 E.

L. Hemmings
Lieut U. S. N.

From 4 to 6 P. M.

Clear and warm. Light to gentle breeze from N. E. Steering a course S. S. E. 1/2 E. under steam and plain sail to Royals save Mainsail, Flying Jib, Mainstaysail and Mizzen topmast Staysail. Steam 50. Revolutions 343.

S. T. Young
Lieut U. S. N.

From 6 to 8 P. M.

Partly clear. Cumulus and cirro cumulus clouds. Very warm. Lightning to N. Gentle to moderate breeze from N. E. Smooth sea. At end of watch under steam and plain sail to Royals and Mizzen Topmast Staysail, on course S. S. E. 1/2 E. Steam 50. Revolutions 34.

C. S. T. Young
Ensign U. S. N.

From 8 P. M. to Midnight

Clear and hot. Light breeze variable in force and direction. Lightning along horizon to the N. E. Passed steamer standing to the N. Light cirrus and cirro cumulus clouds passing over from N.

C. D. Galloway
Lieut U. S. N.

Examined and found to be correct.

S. W. Wadhams. Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to Aden, Asia.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	5	8	45.7	SSE½E	N.E.	3	1		30.008	85	80	88		b.c.	cir cum	4	S
2	6	2	83.4	"	"	3	1		30.008	85	80	88		"	cum nimb.	4	"
3	6	9	89.3	"	"	3	1		29.998	85	80	88		"	"	4	"
4	6	4	96.	"	"	3	1		29.998	85	80	88		"	"	4	"
5	6	5	102.0	"	East	3			30.008	84	79	88		b.c.l.tp.	"	5	"
6	6	0	8.5	"	SE	2			30.018	83	78	88		"	"	4	"
7	6	4	15.2	"	South	2			30.028	84	79	88		b.c.	cir	2	"
8	6	4	21.9	"	SSE	2			30.048	84	79	88		"	"	1	"
9	6	4	28.6	"	South	2			30.098	86	81	88		"	cum nmt.	2	"
10	6	4	35.3	"	SSW	2-3			30.108	86	81	88		"	"	2	"
11	6	6	41.8	"	South	2			30.098	86	81	89		"	cir cum	6	"
Noon.	3	5	44.8	"	"	2			30.098	87	82	89		"	"	5	"

Course and distance made good since preceding noon by observations, SE by S 145 knots tenths.

Position at Noon:
- Latitude by D. R. N. 16 .56. "
- Longitude by D. R. E. 40 .49. "
- Latitude by observations of ⊙ N. 17 .00. "
- Longitude by chronometer from Forenoon Observations of ⊙ E. 40 .36. "

Position at 8 a. m.:
- Latitude by D.R. N. 17 .19. "
- Longitude by Chro do do do E. 40 .23. "

Position at 8 P. M.:
- Latitude by D.R. N. 16 .24. "
- Longitude by Chro from P.M. do E. 41 .04. "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 8 15 " SSE½E W 4 .25. "

Water expended during the preceding 24 hours, 430 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 955 "

Coal consumed during the preceding 24 hours, 5 tons 2070 lbs.

Coal remaining on hand at Noon, 112 " 880 "

P. M.												
1	6	4	51.2	SE by S	South	2		30.038	84	81	89	b.c. cir cum 4 S
2	6	3	57.5	"		2		30.028	84	81	89	" nw " 6 "
3	6	5	68.	"	SSE	2		30.008	4	86	88	" " 6 "
4	6	0	70.	"	"	2		30.008	6	85	87	b.c. " 6 "
5	2	3	72.3	"	SW	1	0	30.008	68	80	86	" nimb 6 "
6	5	4	77.9	"	West	1	0	30.008	68	80	86	" " 5 "
7	4	1	81.8	"	East	1		30.018	68	81	85	" b " 3 "
8	6	6	91.4	"	"	1		30.028	68	81	85	" " 4 "
9	6	6	98.	"	ESE	1-2		30.038	68	81	85	" cir cum 8 "
10	6	8	104.8	"	"	2		30.048	68	81	88	" " 9 "
11	6	6	111.1	"	"	2		30.048	68	81	88	b.c. " 9 "
Mid.	6	8	117.6	"	"	2		30.048	48	81	88	" " 9 "

under the command of Commander T. F. Jewell, U. S. Navy,
Sunday November 7th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M.

Warm & sultry. Gentle breze from N.E. Sea smooth. Moonlight till 2 A.M. Frequent flashes of heat lightning all around horizon with a brilliant electric display throughout the watch in the West & N.W. horizon. Observed two brilliant shooting stars with a flight of about 10 seconds. At 1 A.M. passed a steamer bound North with no port side light showing.

H. L. Gearing
Lieut U.S.N.

From 4 to 8 A.M.

Cloudy. Gentle breze from East first hour shifting about quickly remainder of watch. At 5 took in all sail. Passing shower first hour with lightning and thunder. Steering a course S.S.E. 1/2 E. Passed three steamers standing to N. & W.

B.F. Walling
Lieut U.S.N.

From 8 A.M. to Meridian.

Partly clear with cum & nimb & cir cum clouds. Light to gentle breze from S.W. South & S.S.E. Smooth Sea. Commanding Officer inspected ship, crew at quarters at 9.30 after which read Articles of War & held General Muster. At 10 A.M. held Divine Service. At 11 A.M. Sent down light yards & unbent Sails. Stopped from 11.06 to 11.33 to repair fuel pump hauled in patent log reading 4.3, put patent log over on starboard. At 12 A.M. Set F. & A. sail took it in at 9.30. At end of watch on course S.S.E. 1/2 E. under steam alone. Steam 44 Revolutions 3/4. By order of Commdg Officer placed J. Bettke, Sea. Aff 2 6, in solitary confinement on bread & water for two days for using impertinent language.

A.T. Dewitt
Ensign U.S.N.

From Meridian to 4 P.M.

Fair & hot. Light to gentle breze from S.S.E. Sea smooth. Gentle swell from S.S.E. Ship rolling 4° to 5°. At 1 P.M. started fires in two boilers for distilling. At 3 P.M. started water into tanks.

D.D. Galloway
Lieut U.S.N.

From 4 to 6 P.M.

Hot & sultry. Light airs from S.W. & West. Sea smooth. At 4 P.M. began swinging ship for compass not turning with port helm. Resumed course at 4.40 P.M. At 5.20 deceptive appearance of broken water ahead; stopped the ship & sounded in 105 fms with no bottom. Went ahead again at 5.29. Steam alone. Course S.E. by S. Distilling.

H.L. Gearing
Lieut U.S.N.

From 6 to 8 P.M.

Pleasant weather. Light airs from East. Under steam on course S.E. by S. Distilling. Long swell from S.S.

B.F. Walling
Lieut U.S.N.

From 8 P.M. to Midnight.

Generally clear; light cir. cum clouds. Bright moonlight. Light airs to breze from E.S.E. Smooth sea with a moderate S.E. swell. Lights in two steamers during watch. At end of watch on course S.E. by S. Under steam alone. Steam 44 Revolutions 38.

A.T. Dewitt
Ensign U.S.N.

Examined and found to be correct.

T.F. Wadhams
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Tsaruakuig passage to Aden, Asia

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	6	6	24.4	S. E. by S.	S. E.	2			30.038	85	80	81		b. cl.	cir cum	9	S
2	6	5	30.4	"	"	2			30.038	85	80	86		"	"	9	"
3	6	6	37.3	"	"	2			30.028	85	80	84		"	"	9	"
4	6	8	44.1	"	"	2			30.018	84	79	84		"	cir cum	5	"
5	4	2	51.3	"	"	2	0		30.028	84	80	84		"	"	6	"
6	3	9	54.4	S. S. E.	S. S. E.	2	0		30.048	84	81	84		"	"	6	"
7	6	1	64.4	"	South	2	0		30.008	84	82	84		b.c.	"	4	"
8	5	2	69.6	"	"	3	0		30.068	84	80	82		"	"	4	"
9	4	3	73.9	"	"	4			30.088	68	80	84		b.c.y.	"	5	"
10	4	3	78.2	"	"	4			30.078	85	79	84		"	cir	2	"
11	2	8	82.8	S. by E. 1/2 E.	"	4-5			30.058	78	68	85		"	"	6	"
Noon.	5	0	87.8	S. by E.	"	4-5			30.038	78	68	85		"	cir cums	2	"

Course and distance made good since preceding noon by observations, S. E. 3/4 S. 136 knots tenths.

Position at Noon: Latitude by D. R. N 15° 05 "
Longitude by D. R. E 42° 04' "
Latitude by observations of ⊙ by bearings N 15° 12' "
Longitude by chronometer from Forenoon Observations of ⊙ by bearings E 42° 01' "

Position at 8 a. m. Latitude by D R N 15° 28' "
Longitude by Chron. Dr 28 Dr E 41° 51' "

Position at 8 P. M. Latitude by D.R. N 14° 39' "
Longitude by Chron. Dr P.M. Dr. E 42° 20' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 4h 32m " S. 96° 3/4 E. W. 4° 14' "

Water expended during the preceding 24 hours, 40 gallons.

Water Distilled during the preceding 24 hours, 245 "

Water remaining on hand fit for use at Noon, 1 30 "

Coal consumed during the preceding 24 hours, 8 tons 1880 lbs.

Coal remaining on hand at Noon, 103 " 1240 "

P. M.											
1	5	4	93.1	S. by E.	S. S. E.	4		30.008	78	68	86	b.c.	cir cum	8	W.
2	5	2	98	"	"	4-5		29.998	78	68	81	"	"	9	"
3	2	4	100.7	S. S. E.	"	4		29.968	78	68	86	"	"	9	"
4	6	0	109.5	"	"	3-4		29.958	88	78	086	"	"	9	"
5	4	2	13.7	"	"	3		29.938	88	78	086	"	"	9	"
6	4	5	18.2	"	"	3		29.958	84	78	086	"	"	8	"
7	4	4	22.9	"	S. by E.	3	0	29.988	68	68	186	"	circh	8	"
8	3	6	26.5	"	"	4	0	30.008	68	68	186	"	"	9	"
9	3	0	29.5	"	"	4		30.018	68	68	186	b.c.y.	"	8	"
10	3	0	32.5	"	"	5		30.018	58	48	186	"	"	8	"
11	3	2	35.4	"	"	5-6		30.018	48	48	186	"	"	8	"
Mid.	3	2	38.9	"	"	5-4		30.008	48	48	186	"	"	8	"

under the command of Commander T. F. Jewell, U. S. Navy,

Monday November 8th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & Cutis & A. M.

Clear & hot first part. Gentle breez from S.E. Cloudy & hot latter part. Lightning around horizon to N.W. South & N.E. Leadsmen heave. Gentle breez from S.E. Ship pitching easily. Distilling. Mean set at 3.05.

Ens. Galloway
Lieut-C. S.N.

From 4 to 8 A.M.

Cloudy & warm. Light increasing to gentle breze from S.S.E. to South. Sea smooth. Temperature sea water falling 84-82. At 5.00 sights Jebel Tier 1st bearing S.E. (p.c.) & at 5.26 changed course to S.S.E. (p.c.) patent log reading 5.4. At 6.45 Jebel Tier bore (p.c.) N.N.E. distant 3 miles. At 7.40 sights a group of small islands bearing S.E. by S. At 8.00 Jebel Tier bore (p.c.) N 3/4 W. Under steam alone. Distilling.

H. Helgesons.
Lieut-C.S.N.

From 8 A.M. to Meridian

Clear hazy around horizon. Moderate to stiff breez from South. Moderately high sea. At 9.30 inspected at Quarters. Exercised 1st & 2d divisions at Great Guns; 3d Div at Signals, Morse Code & Powder Div. at powder Stations. By order of Fleet Surg. Officer released F. Sinder, 1 C. app. At 9.50 stopped distilling & at 9.45 cockstuck No. 1 & 3 boilers to engines. At 10.30 changed course to S. by E. 1/2 E. & at 11.00 to S. by E. At 10.35 Gibraltar Rock bore S.E. by E. patent log registering 55.2. At 12 M. it bore E.N.E. 3/4 E. distant 2.6 miles. Jebel Tier bearing N.N.W. 1/2 W. By order of Fleet Surg. Officer crossed E.N. Solar Sea. app. 2 C. in double irons for three days for insolence. At 10.22 set clock ahead 8 minutes. Steam 49. Revolutions 40.

B.F. Walling
Lieut-C.S.N.

From Meridian to 4 P.M.

Generally clear-bright & warm. Occasn clouds. Moderate breez & sea from S.S.E. At 1.20 about to Quarters & drilled 1st, 2d, 3d & Fire Divisions at Signals. At 2.00 changed course to S.S.E. Patent log 98. At 2.30 changed course to S. 9 E. 3/4 E. Patent log 100.7 Passed a steamer at 3.00, exchanged colors with her & found her to be "German". Aboard of watch, on course S.S.E. 3/4 E. Under steam alone. Steam 50. Revolutions 40.

A.T. Jeanes
Ensign U.S.N.

From 4 to 6 P.M.

Fair & hot. Moderate breez from S.S.E. Fifty six pounds of leaves were brought to mast on complaint of Cred. Quarterly Board of Survey was informed. Action not reported. At 4.00 cut off boilers 1 & 3 from engine for distilling purposes. At 5.00 started water into tanks.

Ens. Galloway
Lieut-C.S.N.

From 6 to 8 P.M.

Clear & warm. Gentle to moderate breez from S. by E. Moderate sea with swell. Steam alone with four boilers. Distilling. Course S.S.E. 3/4 E.

H. Helgesons.
Lieut-C.S.N.

From 8 P.M. to Midnight-

Clear & warm. Moderate to very fresh breez from S. by E. Under steam on course S.S.E. 3/4 E. Distilling. Bright-moonlight. A steamer passed standing to S.

B.F. Walling
Lieut-C.S.N.

Examined and found to be correct.

A.V. Wadhams. Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex" , 3d Rate,

At Sea making passage to Aden,

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
									a								
A. M.																	
1	3	0	41.2	S.S.E. 3/4 E.	South	5			30.008	48	38	086		b.c.l	cirrh:	5	N
2	3	0	44.2	"	"	5			29.998	48	38	085		"	"	5	"
3	4	0	48.2	"	"	5			29.968	38	38	083		"	"	5	"
4	4	0	52.	"	"	5			29.968	28	38	082		"	"	5	"
5	3	2	55.2	"	"	4			29.968	38	38	082		"	"	8	"
6	3	4	59.6	S. 1/4. E.	"	5			29.988	38	2	982		b.c.r.	cumul:	4	"
7	1	4	63.9	S.by E. 1/2 E.	"	5			29.988	38	2	982		"	"	4	"
8	6	1	66.1	"	"	6			30.008	38	3	982		"	"	2	"
9	5	1	70.2	"	"	6			30.028	48	3	982		"	"	8	"
10	4	1	74.3	"	"	6	0		30.058	48	38	082		"	"	8	"
11	4	4	78.4	S.by E. 1/4 E.	"	6	0		30.048	58	48	282		"	"	8	"
Noon.	3	2	82.6	"	"	6	0		30.028	48	48	382		"	"	8	"
	3	9	86.4	"	"	6	0		30.008	58	48	382		"	"	8	R

Course and distance made good since preceding noon by observations, S.E. by S. 70 knots tenths.

Position at Noon:
- Latitude by D. R. — N 13 ° 47' "
- Longitude by D. R. — E 42 ° 51' "
- Latitude by observations of ⊙ — N 13 ° 54' "
- Longitude by chronometer from Forenoon Observations of ⊙ by bearings — E 42 ° 53' "

Dy. 111.4

Position at 8 a. m.:
- Latitude by D.R. — N 14 ° 09' "
- Longitude by Chron — E 42 ° 48' "

Position at 8 P. M.:
- Latitude by D.R. — N 13 ° 34 "
- Longitude by Chron from P.M. — E 42 ° 69' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head — ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " — ° ' "

Variation of the Compass by Azimuth ⊙ observed at " — ° ' "

Variation of the Compass by Azimuth ⊙ observed at 4 h 15 m " S. by E. — W 4 ° 08' "

Water expended during the preceding 24 hours, 450 gallons.

Water Distilled during the preceding 24 hours, 570 "

Water remaining on hand fit for use at Noon, 14650 "

Coal consumed during the preceding 24 hours, 15 tons 680 lbs.

Coal remaining on hand at Noon, 93800 "

P. M.												
1	3	6	90.	S. by E.	S.S.W.	5-6		29.978	68	5-838	2 b.c.g.	cir cum clr 8 R
2	3	8	93.8	"	"	5-6		29.9	58	5-848	2 "	" 8 "
3	3	8	97.6	"	S. by W.	5-6		29.938	58	4-838	2 "	" 8 "
4	3	4	101.3	"	"	6-4		29.938	58	4-838	2 "	" 8 "
5	2	4	104.4	S. 1/2. E.	South	6-4		29.928	4	4 838	2 "	" 5 "
6	3	8	8.6	"	"	6-4		29.928	4	8 38	2 "	" 2 "
7	3	8	12.4	"	"	6		29.968	4	8 38	2 "	" 2 "
8	3	5	16.3	"	"	4		29.978	4	8 38	2 "	" 2 "
9	3	2	19.5	S. by E.	"	4	1.5	30.008	38	8 28	2 b.c.	" 8 "
10	3	6	23.1	"	"	4	1.5	30.018	38	8 28	2 "	" 8 "
11	3	4	26.1	S. 1/2. W.	"	4	1.5	30.018	38	8 28	2 "	" 8 "
Mid.	3	9	29.4	"	"	4	1.5	30.008	38	2 8 28	2 "	" 8 "

under the command of Commander T. F. Jewell, U. S. Navy,

Tuesday November 9th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From Meridian to 4 A. M.

Partly clear, bright moonlight. Cir. st. clouds. Lightning to N. & W. Stiff breeze with a moderate sea from South. Ship pitching considerably, at times. Two steamers passed us during watch. At end of watch, on course S.S.E. 3/4 E. under steam alone.

A. F. Fechteler
Ensign U. S. N.

From 4 to 8 A. M.

Clear and warm. Moderate breeze from South, increasing in force to a very fresh breeze at end of watch. At 5h. sighted Harriet Islands, centre peak bearing S. 1/4 W (pc). At 5h 30m changed course to S. 1/4 E. At 5h 45m to S. by E. 1/4 E.; at 5h 52m to S. by E. 1/2 E. At 6h stopped distilling and used steam from boilers 1 and 3 for engine. Moderate head sea. Ship pitching easily at times but easily. Placed R. W. Phillips, Sea Appr. 6, under confine charge to await action of Comdg Officer.

D. D. Galloway
Lieut U. S. N.

From 8 A. M. to Meridian.

Clear and warm. Very fresh breeze from South. Moderate roughening sea with the wind. Steaming by Jebel Zukir and Harriet Islands under six boilers. At 9.00 changed course to S. by E. 1/4 E. At 9.30 quarters for inspection. Exercised Artillery Crews with the 3rd B. L. Howitzer and Setting Guns, Infantry Company in School of the Company and Engrs Div. at Small Arms. Commander Comdg awarded the following punishments. A. T. Birkett 1 C. A., two weeks extra duty for being under Tgeit Bottle while his watch was on deck. J. E. Desbois 1 C. A., 2 days confinement on bread and water for not obeying order of Capt. of Top. R. W. Phillips Sea. Appr. 6, 4 days confinement on bread and water for cursing Chief Boatswain's Mate. Released from confinement their terms of confinement having expired, F. A. Clarke, Eds, and J. Bethke, Sea. Appr. 2. C. At 11.10 started fires under boilers 2 and 4. Two steamers in sight at end of watch, the highest peak of Jebel Zukir bore N. by W. 3/4 W. At 12.00 changed course to S. by E. Noticed two wrecks, on the East head of Zebel Zukir, one a large steamer with masts and funnel standing, head to the Island, hull half out of water, the other a sailing vessel, masts gone and stern thrown up on the beach.

D. D. Galloway
Lieut U. S. N.

From Meridian to 4 P. M.

Clear and warm. Stiff to very fresh breeze from S. S. W. and S. by W. At 2.10 Commenced distilling. At 12.30 cut off two forward port boilers for distilling and steamed with remainder. Exchanged colors with a French Gunboat a Japanese Gunboat and an English merchantman. At end of watch Great Harriet Id bore W. 3/4 S., Jebel Zukur N. W. 3/4 N. Under steam, on course S. by E. Rough head sea. Exercised a squad of apprentices from watch in signals.

D. D. Galloway
Lieut U. S. N.

From 4 to 6 P. M.

Partly clear bright, pleasant squally. Cir. and strat clouds. Stiff to fresh breeze from South. Rough sea. Ship pitching considerably. At 4.30 changed course to S. 1/2 E. P. 2. 2. Exchanged colors with English Str "Sam Sylvanus". At end of watch, on course S. 1/2 E. under steam alone. Land in sight on starboard beam and quarter.

A. F. Fechteler
Ensign U. S. N.

From 6 to 8 P. M.

Clear and warm. Very fresh breeze from South. At 8 changed course to S. by E. Ship pitching deeply but easily to a short sea from South.

D. D. Galloway
Lieut U. S. N.

From 8 P. M. to Meridian

Clear and warm. Very fresh breeze from South. Rough sea with the wind. Ship pitching considerably. At 10.30 got a cast of the Sounding Lead in 15 1/2 fms, bottom Green Sand and broken shell. At 10.27 changed course to S. 1/2 W (p. st). At 11.00 got a cast in 16 fms, Sand bottom. In reeling in wire parted. Expended 2 fms wire. Sounded again, 15 fms, same. Passed a steamer bound North. Steam alone.

A. T. Williams
Lieut U. S. N.

Examined and found to be correct.

H. Williams
Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to Aden, Asia

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a						cir		
1	2	8	33.1	S.S.W.	S.S.E.	6-7			30.008	28	28	28	2	b.c.g.	cir cum str	4	R
2	5	2	38.3	"	"	6-6			30.008	38	28	28	2	"	"	6	R
3	4	1	42.1	S.S.E. ½ E.	"	4-5			29.998	38	28	18	2	"	"	8	"
4	6	2	50.3	"	"	4-5			29.998	38	28	18	2	"	"	8	"
5	6	6	56.9	"	"	4-5			29.988	28	28	18	2	b.c.g.	"	8	"
6	3	4	63.9	S.S.E. ¼ E. S.E. by S.	"	4-5			30.028	28	18	18	2	"	"	8	"
7	4	2	41.0	"	"	5			30.048	38	28	18	2	b.c.	cir-cum	9	"
8	6	8	44.5	"	"	5			30.078	38	38	18	2	"	"	9	"
9	6	8	83 8	"	S.E. by S.	5			30.098	48	38	28	3	"	"	9	"
10	6	5	57.6 90.8	S.S.E. ¼ E.	"	5			30.108	48	38	28	3	"	"	9	"
11	5	4	98.1	S.S.E. ½ E.	"	5			30.108	48	48	08	3	"	"	9	"
Noon.	6	0	99.6 104.6	S.E. by E. E. ¼ E.	"	5			30.088	68	34	98	4	"	"	9	"

Course and distance made good since preceding noon by observations, S.S.E. ½ E. 90 knots. tenths.

Position at Noon:
- Latitude by D. R. N 14 ° 5' "
- Longitude by D. R. E 43 ° 41' "
- Latitude by observations of ⊙ N 12 ° 34' "
- Longitude by chronometer from Forenoon Observations of ⊙ E 43 ° 31' "

Dy. 1114

Position at 8 a. m.
- Latitude by D. R. N 12 ° 52' "
- Longitude by by Chron do do do E 43 ° 14' "

Position at 8 P. M.
- Latitude by D. R. N 12 ° 30' "
- Longitude by by Chron from P.M do E 44 ° 28' "

Current during the time, 1 knots — tenths per hour, setting to the S.S.E. ½ E.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 4 13 " " S.S.E. ¾ E W 3 ° 51' "

Water expended during the preceding 24 hours, 420 gallons.

Water Distilled during the preceding 24 hours, 1470 "

Water remaining on hand fit for use at Noon, 25000 "

Coal consumed during the preceding 24 hours, 15 tons 680 lbs.

Coal remaining on hand at Noon, 78 " 120 "

P. M.													
1	4	0	11.6	S.E. by E. ¾ E.	S.E. by S.	5	2	30.068	58	48	48	b.c.	cir-str	8	S.
2	4	0	18.6	"	"	4	2	30.038	58	48	48	"	"	8	"
3	4	5	26.1	"	"	4	2	30.018	48	38	48	"	"	8	"
4	4	4	33.5	"	"	4		30.018	48	38	48	"	"	9	"
5	5	5	39 0 41.	E.N.E. ½ E.	S.E.	4		30.018	38	28	48	"	cirrus	8	"
6	4	6	48.5	"	E. by S.	4		30.028	38	28	48	"	"	9	"
7	4	5	56.1	"	Calm	3-4		30.048	38	28	48	"	cir-str	9	"
8	4	6	63.6	"	"	3-4		30.048	38	28	48	"	"	10	"
9	6	8	70.4	"	E.N.E.	3		30.108	28	28	48	"	str	10	"
10	4	4	78.1	E. by N.	"	3		30.108	28	28	48	h.	rain	10	"
11	8	0	86.	"	"	3		30.108	28	08	48	"	"	10	"
Mid.	6	5	90.6 92.4	N. E. by E. ½ E.	"	3		30.098	08	08	48	"	"	10	"

Dist 12°-45'
Dy. 1115-
Lo. 8 45°

under the command of Commander T. T. Jones, U. S. Navy,

Wednesday November 10th, 1886

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From Meridian to 4 P.M.

Clear & warm. Moderate breeze from S.E. by S. Sea smooth. Steaming along Arabian Coast under sixboilers, distilling evaporators. Course S.E. by E. 3/4 E. Had monthly issue of clothing. Marine Guard exercised at Skirmish Drill. Apprentices instructed in "Army & Navy" Code of Signals. At 3 pm exchanged colors with English Steamer "Potosi" bound North. Sounding every hour with Sounding Machine, 23, 23, 21½, 22 fms bottom yellow sand.

H. G. Gearing.
Lieut. U.S.N.

From 4 to 6 P.M.

Clear & pleasant. Moderate breeze from S.E. & E. by S. At 4.40 changed course to E.N.E. ½ E. Got cast of lead at 5 & 6 in 32 fms bottom coarse sand. Exchanged colors with a French Steamer at 4.40. at fore & aft sail: took it in at 5.10. At 6 pm sighted high land of Aden.

C. T. Harris
Lieut. U.S.N.

From 6 to 8 P.M.

Clear bright moonlight: pleasant. Light cir. str clouds around horizon. Gentle to moderate breeze from East. Smooth Sea. Land in sight ahead & on port side. Sighted a Steamer on Starboard bow at 7 pm. At end of watch on course E.N.E. ½ E. under Steam alone. Steam 45. Revolutions 47.

A. T. Dechman
Ensign U.S.N.

From 8 P.M. to Midnight.

Clear & pleasant. Gentle breeze from E.N.E. Sea smooth. At 9 pm changed course to E. by N. Got cast lead (Thomson Machine) 2 fms. At 10 came at 10.48 sighted Aden light bearing (p.c.) NE ½ E. At end of watch standing in for anchorage Comdg Officer coming the ship at 10.30 hauled being fired shotted distiller. Bright moonlight.

Examined and found to be correct.

E. D. Galloway
Lieut. & Navigator.

Lieut. U.S.N.

From Commences to Noon

Clear, hazy over the land. Moderate to very fresh breeze in squalls from S.S.E. Rough sea first hour moderate sea last three hours. Bright moonlight. At 12.3 got a cast of the lead in seamt 20 fms of water bottom rock & coarse sand. At 12.48 changed course to S. ½ E. At 2.20 changed course to S.S.E. ½ E. Got casts of lead as follows: at 1.15 in 24½ fms, bottom coarse sand & broken shell; at 2.00 in 25 fms, bottom rock coarse sand & broken shell, at 2.30 in 120 fms bottom rock coarse sand & broken shell, at 3.00 in 120 fms same bottom. At same time Gibbs Bore E.S.E. high peak to starboard W.S.W. Got cast at 3.30 no bottom 120 fms. no bottom at 4.00 in 80 fms. Land in sight at end of watch bearing W. by S. & E. by S. Steam 39. Revolutions 41.

B. F. Warren
Lieut. U.S.N.

From 4 to 8 A.M.

Generally clear, bright & pleasant. Cir-cumst & str clouds. Squalls first part. Moderate to stiff breeze. Stiff breeze latter part. At 5.9 changed course to S.S.E. ¾ E. P.L. 58.7. At 5.30 changed to S.E. by S. P.L. 60.5. At 4.00 changed course to S.S.E. ½ E. P.L. 41.0. Sighted Perim Light-House bearing (p.c.) S.E. ½ E. at end of watch, on course S.S.E. ½ E. under steam alone. Exchanged colors with an English steamer.

A. T. Dechman
Ensign U.S.N.

From 8 A.M. to Meridian

Clear & warm. Fresh to stiff breeze from S.S.E. Cirro-cumm clouds passing over from windward. At 9.00 changed course to S.E. by S. At 9.30 to S.S.E. ¾ E. Between 9.30 & 11 standing through Straits of Bab-el-Mandeb to the Eastward of Island of Perim. Commanding Officer conning the ship. At 11.15 set course S.E. by E. ½ E. At 12.00 got cast of lead (Thomsons Machine) 2 fms by tubes. no bottom. At 9.30 quarters. Exercised 1st Div. Rifles: 2d Div. School of Company. 3d Div. Rifles. Boat Div. Station. Placed F.A. Clarke, Lds, in double irons for 5 days for using insolent language to Sergt-of Marines while on duty by order of Comdg Officer. Exchanged colors with British Str Sussorah. Steaming.

E. D. Galloway
Lieut. U.S.N.

LOG of the UNITED STATES Steamer "Essy" 3d Rate,

at Anchor off Aden.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a								
1	Ebb. Tide			N. N. E.	N. N. E.	2			30.04	78	79	74		b.c.d.	cir-str	9	S.
2	"			North	"	2			30.05	78	77	73		"	"	9	"
3	"			"	"	3			30.05	78	78	78		"	"	9	"
4				Swinging	"	2			30.05	78	79	79		"	"	9	"
5				N. N. W.	"	2			30.04	78	79	79		b.c.	"	9	"
6				N. E. by. N.	N. E.	2			30.06	78	79	79		"	"	9	"
7				"	"	2			30.08	76	73	72		"	"	9	"
8	Ebb-tide			N. E. by. E.	"	2			30.10	78	76	74		"	"	9	"
9				"	"	2			30.13	80	79	76		"	"	9	"
10				E. N. E.	"	2			30.13	82	81	76		"	"	9	"
11				"	"	2			30.12	88	81	76		"	"	9	"
Noon.				"	"	2			30.08	83	81	76		"	"	9	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 450 gallons.

Water Distilled during the preceding 24 hours, 300 "

Water remaining on hand fit for use at Noon, 27150 "

Coal consumed during the preceding 24 hours, 2 tons 2240 lbs.

Coal remaining on hand at Noon, 270 " 120 "

P. M.		Ships Head							
1	Flood	S. E. by. S.	S. E. by. S.	2	30.08	82	80	cir-cumr	2 S.
2	"	"	"	2	30.08	82	80	"	8 "
3	"	South	S. S. E.	3	30.08	82	76	"	8 "
4	"	"	"	2	30.08	82	76	"	8 "
5	"	S. by. W.	"	3	30.03	82	79	"	8 "
6		"	S. E.	3	30.04	83	82	"	8 "
7		S. by. W.		2	30.06	82	82	"	8 "
8	Swinging	E. by. E.	E. S. E.	2	30.09	82	81	"	8 "
9	Ebb Tide	"	N. E. by. N.	2	30.09	81	81	"	2 "
10	" "	N. N. E.	"	2	30.09	81	81	"	2 "
11	" "	N. E. by. N.	"	2	30.10	81	81	"	2 "
Mid.	" "	"	"	2	30.10	81	81		

under the command of Commander T. F. Jewell, U. S. Navy,

Thursday November 11th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends at 4 A. M.

Clear & pleasant. Bright moonlight with a slight ded. Light breeze from N. N. E. At 12 30 came to off Steamer Point Aden, in 4½ fms water 2½ fms port chain. Hauled fires under Starboard & banked fires under port boilers. Bearings at anchorage as follows: Light ship bore (p.c) S. E. by E. 1/4 E. distant 3 cables, Ships Head E. by N. Health boat came alongside & ship obtained pratique. Received a visit of courtesy from an officer from H. B. M. Flagship "Racehanty". Put a mail on the P. & O. steamer "Ganges" that left the harbor at 2.10 for Port Said. Riding to the ebb tide beginning to swing to flood at 3.30. Draft of Ship fwd 13.2", Mid ship 14", aft 15.6".

H. Helgearing.
Lieut U. S. N.

From 4 to 8 A. M.

Clear. Light breeze from N. & W. & E. Sent an officer to return official call on board H. M. S. "Racehanty".

Hugh Rodman
Ensign U. S. N.

From 8 A. M. to Meridian.

Clear & warm. Light breeze from N. E. Got out launch. Straightened up ship for port. Sent officer to H. I. C. M. S. to offer usual civilities. At 10 30 spread fires. At 11.19 got underway to shift anchorage. At 11 30 came to, with port anchor, 3 fms chain, 4 fms water, bottom hard mud. Bearings of anchorage Aden Idrs (p.c) S. 20. by W. ½ W. Ras Tarshenn (p.c) S. S. E. ½ E. Released E. M. Dolan, Ord. App. 2 C, & J. E. Desbois, 1 C. ship from confinement, terms having expired. Tide ebb.

E. D. Galloway
Lieut U. S. N.

From Meridian to 4 P. M.

Clear & warm. Fresh breeze from S. E. by S. & S. S. E. Riding to wind & flood tide. Discharged a load of ashes into a shore lighter. Commander Commdg made official calls on Rear Admiral Sir Charles Richards Commdg English East India Squadron, on the Commdg Officers of H. B. M. Ships "Racehanty", "Mariner" & "Penguin" & on Colonel Goodet R. A. Actg Resident.

H. Helgearing.
Lieut U. S. N.

From 4 to 8 P. M.

Clear & warm. Light breeze from S. E. & East. Commanding officer of H. B. M. S. "Penguin" paid an official visit to Ship. Tide flood. At 8 ~~Swinging~~ to ebb.

E. D. Galloway
Lieut U. S. N.

From 8 P. M. to Midnight.

Clear, Pleasant. Bright moonlight. Light breeze from E. E. by S. Riding to Ebb Tide.

H. Helgearing.
Lieut U. S. N.

Examined and found to be correct.

S. V. McClarren
Lieut

Navigator.

LOG of the UNITED STATES Steamer "Essex" 3d Rate,

At Anchor off Aden.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a								
1				N. E. by N.	N. E.	2			30.108	81	76			b.d.	none	10	S.
2				N. E. by E.	"	1			30.09	79	78	76		"	"	10	"
3				E. S. E.	"	1			30.09	79	78	76		"	"	10	"
4				S. E. by E.	"	1-2			30.08	78	77	76		b.cu.	"	10	"
5	Sounding			E. S. E.	"	2			30.08	78	77	75		"	"	10	"
6	7			E. N. E.	"	2			30.09	79	78	74		"	"	10	"
7				N. E. by E.	"	3			30.1	79	79	76		"	"	10	"
8	Ebb			N. E.	"	2			30.13	78	77	76		"	"	10	"
9		"		"	"	2			30.14	80	80	76		"	"	10	"
10		"		"	"	2			30.14	81	81	76		"	"	10	"
11		"		"	"	2			30.18	82	81	76		"	"	10	"
Noon.		"		E. by S.	"	2			30.10	82	82	77		"	"	10	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ′ ″

Longitude by D. R. ° ′ ″

Latitude by observations of ⊙ ° ′ ″

Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m. Latitude by ° ′ ″

Longitude by ° ′ ″

Position at 8 P. M. Latitude by ° ′ ″

Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 420 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2250 "

Coal consumed during the preceding 24 hours, tons 4 cwt lbs.

Coal remaining on hand at Noon, 69 " 1960 "

P. M.										
1		North	N. E.	3-4	30.07	83	82	76	b.c. circum	S.
2		S. E.	N. E. by N.	3-4	30.06	84	82	76	"	" 8 "
3		"	"	3-4	30.04	84	82	76	"	" 8 "
4		"	"	3-4	30.04	84	84	76	"	" 8 "
5	Ebb	S. by E.	S. S. E.	3	30.05	83	82	76	b.cu. str	9 "
6	"	S. by W.	E. by N.	2	30.07	83	82	77	"	none 10 "
7	"	South	"	2	30.10	82	82	77	b.c. circum	8 "
8	"	S. S. E.	East	2	30.11	82	81	76	"	" 8 "
9		S. E. by E.	"	2	30.12	81	81	76	"	" 8 "
10		E. by N.	"	2	30.13	81	81	76	"	" 8 "
11		N. E. by N.	"	2	30.12	80	79	75	"	cir 9 "
Mid.		N. N. E.	"	2	30.12	79	78	75	"	" 9 "

under the command of Commander T. F. Jewell, U. S. Navy,

Friday November 13th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From Meridian to 4 P. M.

Clear and pleasant. Heavy and Light airs and breeze from N. E. at 2.00 coming to flood.

L. P. F. Wagner
Lieut U. S. N.

From 4 to 8 P. M.

Clear, hazy and warm. Gutte breeze from N. E. Placed J. Walsh, I. C. app, in double irons for two days for carelessness throwing water into cabin port by order of Comdg Officer. At 7.30 bent top gallant sails. At 8.00 crossed top gallant yards and hoisted sail to a breeze. Tide ebb.

T. B. Galloway
Lieut U. S. N.

From 8 P. M. to Meridian

Clear and warm. Light N. E. breeze. At 9.20 sounded fire alarm. Trials of streams as follows: 1st Stream, 2d Div. 0h 5m 5s, 2d Stream 1h 2m 0s, 3d Stream 1h 1m 7s, Engrs do. same time. By order of Comdg Officer John Hackett, Water Tender, was divided to 1st C. Fireman and James Horan, 1st Fireman, class petty, water tenders. Mechanics at work on various jobs. Coal hauled. Wire for deep sea sounding machine and engaged fitting torpedo gear to steam cutter. Received official visit from the Comdg Officers of H. B. M. Ships "Bacchante" and "Mariner." Riding to ebb tide.

H. Helgearing.
Lieut U. S. N.

From Meridian to 4 P. M.

Clear and pleasant. Gutte to moderate breeze from N. E. and N. E. by N. At 1.20 furled sail. Sent out Steam Cutter for exercise with torpedoes. Expended 3 Exercise Gun Cotton Torpedoes, 9 ft. Exercise Dry Discs, 3 Spindles, 3 Detonators, 3 Pins, 3 Rubber Glands Bored, 1 Secondary Spar, Boat. Received an official visit from Lt. Jossett, Military Governor of Adm.

L. P. F. Wagner
Lieut U. S. N.

From 4 to 8 P. M.

Clear and warm. Light breeze from E. by N. At sunset sent down top gallant yards. Placed A. Bergdahl, I. C. app, under sentry's charge to await the action of Comdr Comdg for disobedience of orders. Riding to Flood tide.

H. Helgearing.
Lieut U. S. N.

From 8 P. M. to Meridian

Clear and pleasant. Light breeze from East. At 8.30 coming to ebb.

L. P. F. Wagner
Lieut U. S. N.

Examined and found to be correct.

A. V. Wadhams
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Anchor off Adam.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				N. by E.	N. by E.	2			30.02	78	79	76		b c	circum	8	S
2					"	2			30.05	78	79	76		"	"	8	"
3				N. E. by E.	"	2			30.09	78	77	76		"	"	8	"
4					"	2			30.09	78	77	75		"	"	8	"
5		Swinging		E. by N.	"	2			30.10	78	76	73		"	cum str	7	"
6				S. E.	"	2			30.10	78	77	74		"	"	8	"
7		Ebb		N. by W.	N. E. by N.	2			30.12	78	76	73		"		7	"
8		"		N. by E.	N. E.	2			30.13	78	77	74		"	cir cum	8	"
9		"		N. N. E.	S. E.	1			30.10	79	79	75		b. q.	nme	10	"
10		"		"	"	1			30.15	80	79	76		"	"	10	"
11		"		N. E.	"	2			30.16	82	82	76		"	"	10	"
Noon.				E. N. E.	East	3			30.11	83	83	73		"	"	10	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ' "
Longitude by D. R. ° ' "
Latitude by observations of ⊙ ° ' "
Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "
Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "
Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 450 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1800 "

Coal consumed during the preceding 24 hours, tons 4 cwt lbs.

Coal remaining on hand at Noon, 69 " 1560 "

P. M.										
1		E. S. E.	East	2	30.08	83	83	74	b c	cir	9	S
2	Flood	S. E. by S.	S. by E.	2	30.06	83	83	76	"	"	9	"
3		S. by E.	"	2	30.06	83	83	76	"	"	9	"
4		S. by W.	"	2	30.05	84	84	76	"	"	9	"
5		"	"	1	30.05	84	84	76	"	"	9	"
6		"	"	1	30.05	84	83	76	"	"	9	"
7		"	"	1	30.04	82	82	76	"	"	9	"
8		S. E. by E.	"	1	30.08	82	82	76	"	"	9	"
9	Ebb	N. E.	N. N. E.	1	30.09	81	80	75	b	none	10	"
10		N. N. E.	"	1	30.09	80	79	74	"	"	10	"
11		N. by E.	"	1	30.09	79	78	73	"	"	10	"
Mid.		"	"	1	30.09	79	78	72	"	"	10	"

under the command of Commander T. F. Jewell, U. S. Navy,

Saturday November 13th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & Cutie. 4 A. M.
Clear & pleasant. Light breze from N. by E. Steamer came in from Outward. Began to swing to flood at 3.30.

C. A. Feguson
Ensign U. S. N.

From 4 to 8 A. M.
Clear & warm. Light breze from N. by E. to N. E. Sound bilges main & foreman store-room and fore passage. At 8 oc crossed top gallant-yards & loosed sails. Riding to ebb, having swung, at about 6 oc from an unusually high tide; flooding the deck of wrecked foreman Steamer in the harbor.

N. E. Gerging
Lieut U. S. N.

From 8 A. M. to Meridian.
Hazy & warm weather. Light airs & breze from S. E. & South breze from East. Riding to ebb. Two Steamers came in & anchored. At 11.30 furled sail. By order of Cmd'g Officer confined A. Bergman, 1. C. Appl, for two days on bread & water for disobedience of orders.

B. F. Waring
Lieut U. S. N.

From Meridian to 4 P. M.
Clear & pleasant. Light breze from East & S. by E. The India Marine Steamer "Amber Witch" came in & anchored. Swing to flood at 1.30

C. A. Feguson
Ensign U. S. N.

From 4 to 8 P. M.
Clear & warm. Light airs from S. by E. at 7.45 tugs moved sunken steamer to S. & W. Co.

B. F. Waring
Lieut U. S. N.

From 8 P. M. to Midnight.
Clear & pleasant. Bright moonlight. Light breze from N. N. E. Riding to ebb.

C. A. F. Feguson
Ensign U. S. N.

Examined and found to be correct.

A. V. Wartmann.
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Auchmuty Aden

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb			N. E.	N. E.	1			30.04	42	42	42		b.	nmc	10	S
2	"			N. E. by N.	"	1			30.06	42	42	42		"	"	10	"
3	"			"	"	1			30.04	42	42	42		"	"	10	"
4	Flow			E.	"	2			30.05	42	42	43		"	"	10	"
5				"	"	2			30.06	42	42	42		"	"	10	"
6				E. by S.	"	2			30.08	42	42	42		"	"	10	"
7				E. N. E.	"	2			30.10	42	42	42		"	"	10	"
8	Ebb			"	"	2			30.08	42	42	41		"	"	10	"
9	"			N. E. by N.	"	0-1			30.10	42	42	43		b.w.	"	10	"
10	"			"	"	1			30.10	42	42	46		"	"	10	"
11	"			N. E.	"	1			30.13	42	42	46		"	"	10	"
Noon.	"			E. N. E.	"	2			30.10	42	42	46		"	"	10	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ' "
Longitude by D. R. ° ' "
Latitude by observations of ⊙ ° ' "
Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "
Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "
Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 4 2/5 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 13235 "

Coal consumed during the preceding 24 hours, tons 4 lbs.

Coal remaining on hand at Noon, 69 " 1160 "

P. M.									
1	Ebb	E. S. E.	S. S. E.	3	30.09	42	b	nmc	10 S
2	"	S. E. by E.	"	3	30.05	42	"	"	10 "
3	"	S. E. by S.	"	3	30.04	42	"	"	10 "
4	Slack	S. S. E.	"	3	30.04	42	"	"	10 "
5	Flood	S. by W.		2	30.03	42	"	"	10 "
6	"	South	E. N. E.	2	30.04	42	"	"	10 "
7			"	2	30.06	42	"	"	10 "
8		E. by S.		2	30.08	42	"	"	10 "
9	Ebb	E. N. E.	N. E.	2	30.08	42	"	"	10 "
10	"		"	1-2	30.08	42	"	"	10 "
11	"	N. E. by E.	"	1-2	30.08	42	"	"	10 "
Mid.	"	N. by E.	"	1	30.04	42	"	"	10 "

under the command of Commander T. F. Jewell, U. S. Navy,
Sunday November 14th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences with Units & A. M.

Clear, bright moonlight. Light N. E. airs. Riding to ebb tide water 3 2m when ship commenced to swing, finished swinging at 4 00m. No appreciable current. A steamer came in at 3 45m.

H. C. Poundstone
Ensign U. S. N.

From 4 to 8 A. M.

Clear pleasant weather. Light breze from N. E. Riding to flood. Ship swinging to wind at 7.45. Received on board in Dept. Provisions & Clothing 145 lbs fresh beef, 145 lbs vegetables & 96 lbs fresh bread. Issued same to crew.

P. G. Wearing
Lieut U. S. N.

From 8 A. M. to Meridian

Clear & pleasant. Light breze from N. E. At 10 00m Judge Officer inspected ship & crew at quarters. At 10 30m held divine Service on Gun deck. By order of Judge Officer released J. Walch, I. C. app., from confinement.

C. S. Sadler
Ensign U. S. N.

From Meridian to 4 P. M.

Clear bright & pleasant. Fruitle breze from S. S. E. Ebb till 3 o'clock, slack afterwards. Ship riding to wind & tide, swung to wind at 3 o'clock. Sent an officer to make customary call of courtesy on Indian Marine Vessel Amberwitch. Italian steamer left the port.

H. C. Poundstone
Ensign U. S. N.

From 4 to 8 P. M.

Clear pleasant weather. Light breezes from S. S. E. & E. N. E. At 4:25 swung to flood. An English steamer came in & anchored. Italian mail steamer left the harbor.

P. G. Wearing
Lieut U. S. N.

From 8 P. M. to Midnight.

Clear bright moonlight. Pleasant Light airs to breezes from N. E. Riding to ebb tide. No current.

H. C. Poundstone
Ensign U. S. N.

Examined and found to be correct.

A. V. Wachsmuth
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Anchor off Aden.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb			N. E. by N.	N. E.	2			30.06	74	74	74	71	b	Cume	10	S
2	"			N. E. by E.	"	2			30.05	74	74	74	71	"	"	10	"
3	"			N. E.	"	2			30.04	74	74	74	73	"	"	10	"
4	Slack			"	"	2			30.04	76	75	74	71	"	"	10	"
5	Flood			"	"	2			30.05	76	75	70		"	"	10	"
6	"			S. E. by E.	"	2			30.04	74	74	76	72	"	"	10	"
7	"			East	"	2			30.09	74	84	76	73	"	"	10	"
8	Swinging			N. N. E.	"	2			30.10	78	84	74	73	"	"	10	"
9	Ebb			N. E.	"	2			30.12	80	74	74	76	"	"	10	"
10	"			"	"	3			30.13	82	74	74	74	"	"	10	"
11	"			N. E. by E.	"	3			30.13	84	74	74	74	"	"	10	"
Noon.	"			E. by N.	"	3			30.10	84	81	74	79	"	"	10	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: { Latitude by D. R. ° ' "
Longitude by D. R. ° ' "
Latitude by observations of ⊙ ° ' "
Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. { Latitude by ° ' "
Longitude by ° ' "

Position at 8 P. M. { Latitude by ° ' "
Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 475 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 850 "

Coal consumed during the preceding 24 hours, tons 1240 lbs.

Coal remaining on hand at Noon, 174 " 400 "

P. M.									
1	Flood	S. E.	S. S. E.	3	30.08	82	80	b	None	10	S
2	"	"	"	3	30.08	82	80	"	"	10	"
3	"	"	"	3	30.08	84	81	"	"	10	"
4	"	S. S. E.	"	3	30.05	84	81	"	"	10	"
5	Flood	S. E. by E.	E. N. E.	3	30.05	84	81	"	"	10	"
6		E. S. E.		2	30.08	82	81	bc	cume	9	"
7	Slack	S. S. E.	"	2	30.10	82	80	"	"	9	"
8	"	"	"	2	30.12	82	80	"	"	9	"
9	Ebb	E. N. E.	"	2	30.12	82	80	"	"	9	"
10	"	"	N. E.	2	30.12	80	76	"	"	9	"
11	"	N. E. by N.	"	2	30.12	78	76	"	"	9	"
Mid.	"	"	"	2	30.12	78	76	"	"		

under the command of Commander T. F. Jewell, U. S. Navy,

Monday November 15th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From Meridian to 4 P.M.

Clear and warm. Fresh breeze from S.S.E. Engaged cleaning ship. Fitting up for rigging. Fitting deep sea sounding machine. At 3h 15m Str "Amberwitch" East Indian Mail left the Dock. Steam Launch laid up temporarily for repairs. Released F. A. Clarke, Lds and A. Bergman, 1.C. apl. from confinement, times having expired, by order of Commdg Officer.

T. D. Galloway
Lieut U. S. N.

From 4 to 8 P.M.

Clear and pleasant. Light breeze from N.E. Flood made about 4.30. Ship riding across wind and tide, during the watch. At 6.30 two coal lighters came alongside. Commenced coaling at 6.45. Received by end of watch 47 tons. Received in Pay department 145 lbs fresh beef, 145 lbs fresh vegetables and 115 lbs fresh bread.

C. F. Preston
Ensign U. S. N.

From 8 P.M. to Meridian.

Clear, bright and pleasant. Light to gentle N.E. breeze. Coaling ship. Finished coaling at 11.30 having taken on board 105 40/60 tons, 35 20/60 tons on deck. Coal lighters shoved off at 11.40. Washed down and cleaned ship's ends. Riding to ebb. Set up fore topmast, top gallant and royal backstays and T. to rigging. Steam Launch's guide brasses reported to Commt. Received visit from Captain of HMS "Amberwitch".

H. C. Poundstone
Ensign U. S. N.

From Meridian to 4 P.M.

Clear and warm. Fresh breeze from S.S.E. Engaged cleaning Ship. Fitting up for rigging. Fitting deep sea sounding machine. At 3.15 Str "Amberwitch" East Indian Mail left the Dock. Steam Launch laid up temporarily for repairs. Released F. A. Clarke, Lds and A. Bergman, I.C. apl. from confinement, times having expired, by order of Commdg Officer.

T. D. Galloway
Lieut U. S. N.

From 4 to 8 P.M.

Generally clear. Pleasant. Light to gentle E.N.E. breeze. Flood first part, slack afterwards. Fitted new guide brasses to Steam Launch; tried her and found everything to work well.

H. C. Poundstone
Ensign U. S. N.

From 8 P.M. to Midnight.

Clear, wind and pleasant. Light breeze from N.E. Ship swinging to ebb first hour; riding to ebb remainder of watch. Moon rose at 8.5. Bright moonlight.

T. D. Galloway
Lieut U. S. N.

Examined and found to be correct.

R. Wrahams.
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex" , 3d " Rate,

At Anchor off Aden.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.			Ships Head														
1	E	4/4		N. E. by N.	N. E.	2			30.10	78	74	72		h.	cume	10	S.
2	"				"	2			30.10	78	74	72		"	"	10	"
3	"			N. E.	"	2			30.10	78	74	72		"	"	10	"
4	"			"	"	2			30.09	74	74	72		"	"	10	"
5	"			"	"	2			30.08	76	76	72		"	"	10	"
6	"			"	"	2			30.12	74	73	70		"	"	10	"
7	Slack			E. by N.	"	2			30.14	74	74	70		"	"	10	"
8	"			"	"	2			30.16	78	74	70		"	"	10	"
9	E by N			N. E. by E.	"	2			30.18	81	78	75		b c	stn	9	"
10				"	"	2			30.18	84	79	76		"	"	9	"
11				"	"	2			30.16	84	83	76		"	"	9	"
Noon.				E. by N.	East	2			30.15	86	86	73		"	"	9	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ' "
Longitude by D. R. ° ' "
Latitude by observations of ⊙ ° ' "
Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "
Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "
Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 450 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 407 "

Coal consumed during the preceding 24 hours, tons 407 lbs.

Coal remaining on hand at Noon, 174 " "

P. M.									
1	Ebb	E by S	E. by E.	2	30.10	84	85	76	b c	cir cum	3	S
2	Swinging	East	S. E.	2	30.09	84	86	75	"	"	3	"
3	"	"	S. S. E.	2	30.08	86	86	75	"	"	5	"
4	Riding to the			2	30.08	86	86	75	"	"	6	"
5	Flood	S. E.	E. by S.	2	30.08	86	85	84	"	"	5	"
6	"	S by W.	N. E.	2	30.08	86	85	80	"	"	5	"
7	"	"	"	2	30.11	85	84	78	b c l.	cirr cumu	6	"
8	"	"	"	2	30.15	85	84	78	"	cirr cumu	4	"
9	"	S. S. W.	N. W.	2	30.17	84	83	78	"	"	4	"
10	"	S by W.	"	2	30.14	83	82	78	"	cir	5	"
11	Swinging	E by N.	"	2	30.16	83	81	76	b c.	cumu	5	"
Mid.	Ebb	North	North	2	30.15	81	80	74	"	"	5	"

under the command of Commander T. F. Jewell, U. S. Navy,
Tuesday November 16th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Ends H. A. M.

Clear and pleasant. Bright moonlight. Light breeze from N. E. Riding to wind and ebb tide.

H. Helgesaing.
Lieut. U. S. N.

From H to 8 A. M.

Clear bright and pleasant. Light N. E. breeze. Riding to ebb first part, slack latter part. A French gunboat came in and anchored in inner harbor.

H. C. Poundstone,
Ensign U. S. N.

From 8 A. M. to Meridian.

Clear and warm. Light breeze from N. E. At 8h 30m sent an officer to pay official visit to French gunboat "Capricorn". At 10h 15m inspected at quarters. J. Hoskyn (P. M.) absent. At 10h 30m Rear Admiral Sir Charles Richards Commdg H. B. M. East India Squadron paid an official visit to the ship and was received with usual honors. Ship riding to ebb tide.

C. P. Galloway
Lieut. U. S. N.

From Meridian to 4 P. M.

Warm and pleasant. Light breeze from E. S. E. to S. S. E. Slack water at 1.50 and at 3.00 owing to the wind. Riding to wind first part of watch. At 1.50 started fires under boilers 1 and 3 for distilling. An invitation of Commdg Officer of H. B. M. S. "Daedalus" sent an officer to witness torpedo exercise, on board that vessel.

H. Helgesaing.
Lieut. U. S. N.

From 4 to 8 P. M.

Cloudy and warm. Light breeze from N. E. Lightning along horizon to the N. W. Tide flood. Hoisted steam launch, and made other preparations for sea. J. Hoskyn P. M. was brought on board by police and a reward paid for his apprehension and delivery. Received stores in Engrs and Pay Depts. An officer from French gunboat "Capricorn" paid an official visit to the ship.

C. P. Galloway
Lieut. U. S. N.

From 8 P. M. to Midnight.

Pleasant weather. Light breeze from N. W. and Hazy. Lightning first part of watch in N. W. horizon. Moonlight latter part of watch. At 10h 10m English steamer "Kaisar-i-Hind" with mail from London anchored. Sent an officer on shore for the mail. Started fires under remaining six boilers at 10h 40m. Slack water at 10h 15m. Running to ebb at 11h 30m Distilling

H. Helgesaing.
Lieut. U. S. N.

Examined and found to be correct.

A. Mackenzie
Lieut. Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Anchor off Aden.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a								
1	Calm			N. E.	N. E.	1			30.138	78 1/2				b. c.	cir cumu	5	S
2[15]	Underway	standing out		"	"	1			30.128	"				"	"	5	"
3	of harbr.				"	2			30.104	"				"	"	6	"
4	5 8	5.8		E by S.	N E by E	2			30.080	78 1/2	80			"	"	6	"
5	6 4	12.		E 3/4 S.	N. E.	2			30.128	80	82	80		"	"	8	"
6	6 8	20.6		"	E by S	3			30.148	80	82	80		"	"	8	"
7	7 9	28.5		"	"	3			30.158	81	76	82		"	"	8	"
8	7 8	36.3		"	East	3			30.188	82	82	76	82	"	"	8	"
9	8 2	44.5		"	"	3			30.218	82	76	82		"	"	7	"
10	7 5	52.		"	"	3			30.218	83	83	76	82	"	"	7	"
11	6 9	58.9		"	"	3			30.198	84	83	76	83	"	"	7	"
Noon.	8 0	66.9		"	"	3			30.178	83	79	83		"	"	7	"

Course and distance made good since preceding noon by observations, knots. tenths.

Dg. 1115' Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ N 12° 37' "
- Longitude by chronometer from Forenoon Observations of ⊙ E 45° 58' "

Position at 8 a. m.
- Latitude by D. R. N 12° 40' "
- Longitude by Chron do do E 45° 28' "

Position at 8 P. M.
- Latitude by D. R. N 12° 32' "
- Longitude by Chron P.M. do E 46° 56' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 8. a M. " E 3/4 S. W 3 ° 53' "

Water expended during the preceding 24 hours, 4200 gallons.

Water Distilled during the preceding 24 hours, 1230 "

Water remaining on hand fit for use at Noon, 12500 "

Coal consumed during the preceding 24 hours, 8 tons 960 lbs.

Coal remaining on hand at Noon, 165 " 1280 "

P. M.											
1	7 4	74.3	E 3/4 S.	East	3	0	30.158	83	76	83	S
2	7 7	82.	"		3	0	30.138	84	76	83	6 "
3	7 9	89.9	"	E by S.	3	1/2	30.118	84	76	83	6 "
4	7 3	97.2	"	S E by E.	3	1/2	30.098	84	76	82	6 "
5	7 3	104.6	"	"	3	4	30.088	82	76	83	cir 5 "
6	8 0	112.5	"		3	4	30.098	83	76	83	6 "
7	7 6	119.7	"	S" E.	3	4	30.108	81	76	82	" 5 "
8	7 7	22.4	"	East	3	4	30.118	81	76	83	" 2 "
9	7 5	34.4	"								
10	5 7	36.9	E 3/4 S.	E" S E.	3		30.138	80	76	80	cir 8 "
11	8 2	50.8	"		3		30.138	80	76	79	" 9 "
Mid.	8 3	59.1	"	E by S.	2		30.128	80	76	79	cirr 8 "
				"	2		30.118	80	76	79	" 2 "

under the command of Commander T. F. Jewell, U. S. Navy,

Wednesday November 17th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M.

Clear and pleasant. Light airs and breeze from N. E.: light breeze from East. At 1.30 steam was reported ready. At 1.45 hove up anchor and stood out of harbor. At 3.05 took departure from Galiel bearing W. by N. distant two miles. Put over patent log registering 2 kts. Set course E. by S. At 3.40 set clock ahead fourteen minutes. At 4 changed course to E. 3/4 S. Pas Marshigh Light bearing N. by E. 1/4 E. distant about two miles. Ship under steam alone, at end of watch. Barometer. Bright moonlight. Distilling. Steam 45. Revolutions 38.5. Ships draft fwd 14' 2" aft 16' 4".

D. T. Walling
Lieut U. S. N.

From 4 to 8 A. M.

Clear and pleasant. Light breeze from N. E. hauling to East and freshening. At 4.10 Pas Marshigh Light bearing abeam distant two miles. Ship under steam alone. Course E. 3/4 S. Distilling. Revolutions 43. Steam 48

A. T. Semmes
Ensign U. S. N.

From 8 A. M. to Meridian. Ensign U. S. N.

Fair and hot. Moderate to stiff breeze from East. At 9 a.m. quarters. Exercised 1st and 2d Divs rifles 39 single sticks. Secured anchors for sea. Put cover on main topsail. Shifted hauling parts of fore and fore topsail braces to leaders on main rigging to keep them clear of heat from funnel. Overhauled main topsail sheet and hal. Unbent topgallant sails. Exchanged colors with an English Steamer standing to Col., make unknown.

C. D. Galloway
Lieut U. S. N.

From Meridian to 4 P. M.

Warm and pleasant. Gentle breeze from East to S. E. by E. Steaming with six boilers. Distilling with two. Course E. 3/4 S.

N. Helgesons.
Lieut U. S. N.

From 4 to 8 P. M.

Clear and warm. Gentle to moderate breezes from S. E. by E. Sea coming up gradually. Steering a course E. 3/4 S. under steam alone. Met a Pacific and Oriental Steamer standing to Westward. Steam 45. Revolutions 44.

D. T. Walling
Lieut U. S. N.

From 8 to 8 P. M.

Partly clear pleasant circumstrat clouds. Moderate breeze from S. E. Moderate sea. At 1.30 set fore and aft sail, changed course to East, P. D. 122 1/2 at end of watch on course East (pc) under steam and pr A. Sail. Steam 45. Revolutions 44.

A. T. Semmes
Ensign U. S. N.

From 8 P. M. to Midnight.

Fair and pleasant. Moderate breeze from S. E. decreasing in force towards midnight. Sea smooth. Moon rose at 11 p.m. At 9 p.m. took in fore and aft sail and changed course to E. 3/4 S.

C. D. Galloway
Lieut U. S. N.

Examined and found to be correct.

J. M. Mathews.
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to Colombo.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a								
1	8	3	67.4	E. by S.	E. by N.	2	0		30.108	80	80	75-79		bc.	cir cumm	5	S.
2	7	9	75.3	"	"	2	0		30.09	79	79	74-78		"	"	6	"
3	8	5	83.8	"	"	2	0		30.09	79	78	74-79		"	"	6	"
4	8	4	92.2	"	E. by E.	2	0		30.09	79	78	74	79	"	"	5	"
5	8	5	100.7	"	"	2	0		30.10	79	78	74	79	bcy.	cir	6	"
6	8	4	9.1	"	"	1-2			30.1	79	78	74	79	"	"	4	"
7	7	9	17.0	"	"	1-2			30.14	79	79	74	79	"	"	8	"
8	7	4	24.4	"	East	2			30.15	80	79	75	79	"	"	9	"
9	7	6	32.1	"	"	2-3			30.16	81	78	74	79	fw.	nme	10	"
10	7	8	39.5	"	"	2-3			30.16	81	79	74	78	b.	"	10	"
11	7	6	47	"	"	3			30.15	82	79	73	78	"	"	10	"
Noon.	8	0	55.4	"	"	3			30.13	82	79	73	80	"	"	10	"

Course and distance made good since preceding noon by observations, E½S 149 knots tenths.

Position at Noon:
- Latitude by D. R. — N 12 °21′ "
- Longitude by D. R. — E 49 °03′ "
- Latitude by observations of ⊙ — N 12 °19′ "
- Longitude by chronometer from Forenoon Observations of ⊙ — E 48 °56′ "

Dy. 11.15

Position at 8 a. m.
- Latitude by D. R. — N 12 °22′ "
- Longitude by Chron. do do do — E 48 °25′ "

Position at 8 P. M.
- Latitude by D. R. — N 12 °18′ "
- Longitude by Chron. P.M. do do — E 49 °51′ "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ "

Variation of the Compass by Azimuth ⊙ observed at " ° ′ "

Variation of the Compass by Azimuth ⊙ observed at 4h 6m " East W 3 °49′ "

Water expended during the preceding 24 hours, 420 gallons.

Water Distilled during the preceding 24 hours, 1940 "

Water remaining on hand fit for use at Noon, 27950 "

Coal consumed during the preceding 24 hours, 13 tons 1310 lbs.

Coal remaining on hand at Noon, 151 " 2210 "

	Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
	P. M.																	
	1	6	5	56.3	E. by S.	East	3			30.11	82	81	74	80	b.	nme	10	S.
	2	6	2	61.5	E. by S.	"	3			30.08	82	81	74	79	"	"	10	"
	3	6	4	67.9	"	"	3			30.07	81	80	74	80	"	"	10	"
	4	6	7	74.6	"	"	3			30.07	81	80	74	80	"	"	10	"
	5	6	5	81.1	"	"	3			30.07	81	80	74	80	"	"	10	"
	6	6	2	87.3	"	"	2			30.07	80	79	74	80	"	"	10	"
	7	6	8	94.1	"	"	2			30.09	80	79	74	80	"	"	10	"
	8	7	0	1.1	"	E. by N.	2			30.10	79	79	74	82	b.y.	"	10	"
	9	6	1	7.2	"	"	2			30.11	79	79	74	82	"	"	10	"
Dy. 11.15 12h 16'		1	2	8.5	E. by S.	East	2-3			30.12	79	78	74	79	b.	"	10	"
	10	6	0	13.1	E. by S.	"	2			30.11	79	78	74	79	"	"	10	"
Dy. 11.16																		
Lo. 2.50°	11	3	8	23.5	"	"	2			30.11	79	78	74	79	"	"	10	"
	Mid.	6	4	30.	"	"	2			30.10	79	78	74	79	"	"	10	"

under the command of Commander T. F. Jewell, U. S. Navy,
Thursday November 18th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences, and Unites A. M.
Clear and pleasant. Moonlight. Light breze from E. by N. and E.N.E. Steam alone. Course E. 3/4 E. Distilling.
H. C. Gearing
Lieut U. S. N.

From 4 to 8 A. M.
Clear and pleasant. Hazy about horizon. Light airs and breeze from E.N.E. at 7:30 set clock ahead two minutes. Steering a course E. 3/4 S. Steaming with six boilers. No sail set. Distilling. Steam 60. Revolutions 44
B. F. Welling
Lieut U. S. N.

From 8 A. M. to Meridian.
Clear bright and pleasant. Slightly hazy first hour. Light to gentle breze from East. At 9 a.m. went to quarters with which drills as follows: 1st Batt 2 m. Div Great Guns, 3 m. Div Cutlasses, Engrs and Marines Small arms. Steamer passed on Starboard beam. At 11 a.m. Sighted high land of Somalia Coast, on Starboard bow. At end of watch on course E. 3/4 S. Under Steam alone.
A. F. Fechteler
Ensign U. S. N.

From Meridian to 4 P. M.
Clear, warm and pleasant. Light breze from East. Smooth sea. High land in sight on Starboard beam. At 12:30 hauled fires from boilers 6 and 8. Steaming with 4, distilling with 2. At 1 p.m. Marines & Apprentices of watch at Signal instruction army and Navy Code. Spy Gun Cotton was inspected by Torpedo officer and found in good condition.
E. O. Pendleton
Lieut U. S. N.

From 4 to 6 P. M.
Clear and pleasant. Light breze from East. Smooth sea. High land on Starboard beam. Course E. 1/4 S. Distilling.
H. C. Gearing.
Lieut U. S. N.

From 6 to 8 P. M.
Clear and pleasant. Hazy around horizon. Light breze from E. by N. At 6:18 stopped distilling and hauled fires from No. 1 and 3 boilers. Steering a course E. 1/4 S. under Steam alone, with four boilers. Land in sight, at dark bearing South. Steam 46. Revolutions 36.3
B. F. Welling
Lieut U. S. N.

From 8 P. M. to Midnight.
Clear, pleasant weather. Bright starlight. Light breze from East. Smooth sea. At 8:10 changed course to East. P. L. 8.0. At 8:45 changed course to E. 3/4 S. P. L. 11.5. Hauled fires under two boilers on account of a bad leak. Started fires under two others and went ahead under four boilers again at 1 o'clock. At end of watch on course E. 3/4 S. under Steam alone. Steam 42. Revolutions 33.
A. F. Fechteler
Ensign U. S. N.

Examined and found to be correct.

A. V. Wadhams.
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to Cienfuegos

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a								
1	6	8	36.8	E. 3/4 S.	E by S.	2			30.08	78	78	70	79	b.	none	10	S
2	7	0	43.8	"	"	2			30.04	78	78	70	79	"	"	10	"
3	7	4	51.2	"	"	2			30.02	77	77	74	78	"	"	10	"
4	7	4	58.6	"	"	2			30.06	76	76	72	78	b.c.u.	"	10	"
5	7	4	66.0	"	"	1			30.0	76	76	72	78	"	"	10	"
6	3 / 1	8 / 2	69.8 / 71.0	Cant E. by S.	"	1			30.09	76	75	72	78	"	"	10	"
7	7	4	79.6	"	"	1			30.11	76	74	72	78	b.	"	10	"
8	6	3	85.9	"	"	1			30.13	79	78	72	77	"	"	10	"
9	6 / 0 / 6 / 1	6 / 6 / 1 / 1	86.6 / 92.6 / 93.7	S.E. by E. 1/2 E. / S.E. by E.	E. N. E.	1			30.14	79	78	73	78	b.z.	"	10	"
10	5	3	99.6	"	"	1			30.13	79	77	73	79	"	"	10	"
11	6	1	5.7	"	"	1			30.11	79	78	73	78	"	"	10	"
Noon.	7	3	13.0	"	"	1			30.09	79	78	71	79	"	"	10	"

Course and distance made good since preceding noon by observations, E 1/4 S 183 knots tenths.

Pg. 1116

Position at Noon:
- Latitude by D. R. — N 11 . 52. "
- Longitude by D. R. — E 51 . 28. "
- Latitude by observations of ⊙ by Capt Guardafui Sunrise at 3 P.M. by bearing & Summer P.M. — N 12 . 09. "
- Longitude by chronometer from ~~Forenoon~~ Observations of ⊙ by bearing & Summer — E 51 . 23. "

Position at 8 a. m.
- Latitude by D. R. — N 12 . 28. "
- Longitude by chro " fornoon " " " — E 50 . 44. "

Position at 8 P. M.
- Latitude by D.R. — N 11 . 49. "
- Longitude by chro " P.M. " " " — E 51 . 59. "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 7 P.M. " E by S. W 3 . 10. "

Water expended during the preceding 24 hours, 480 gallons.

Water ——— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2700 "

Coal consumed during the preceding 24 hours, 9 tons 2020 lbs.

Coal remaining on hand at Noon, 142 " 190 "

P. M.																	
1	6	2	19.6	S.E. by E. / E.S.E.	N. E.	1			30.05	79	76	72	81	b.c.	cir. cum.	8	S
2	7	2	36.9	"	"	1-2			30.04	79	76	74	82	"	"	7	"
3	7	4	84.1	"	"	2			30.03	79	76	74	83	"	"	8	"
4	7	6	41.1	"	"	2			30.02	79	77	74	80	"	"	8	"
5	7	4	48.5	"	"	2			30.03	78	77	74	80	b.c.z.	"	2	"
6	7	6	56.1	"	"	2			30.04	78	77	71	78	b.c.	"	8	"
7	7	7	63.8	"	"	2	1.S		30.06	78	77	72	78	"	"	8	"
8	7	5	71.3	"	"	2	1.S		30.04	77	77	72	78	"	"	9	"
9	7	4	78.7	"	"	2			30.08	79	74	73	78	"	cir. str.	7	"
10	7	4	86.1	S.E. by E. 1/2 E.	E by S.	2			30.08	79	78	73	78	b.c.f.	"	8	"
11	7	1	93.2	"	"	2			30.08	79	78	75	78	"	"	6	"
Mid.	7	0	100.2	"	"	2			30.08	79	77	71	78	"	"	7	"

under the command of Commander T. F. Jewell, U. S. Navy,

Friday November 19th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M.

Clear and mild. Light breeze last hour. Light breze from E by S. Sea smooth. At 12 m. got cast of lead (Thomsons Machine) 100 fms, no bottom. Hours rested at 12 m.

E. D. Galloway
Lieut U. S. N.

From 4 to 8 A. M.

Clear overhead, haze about horizon till after sunrise. Light airs from E by S. Smooth sea. Steam under four boilers. At 4 m cast of lead with coasting machine 150 fms were out and no bottom. At 5 m changed course to East patent log reading 6 7/8 and slowed down to 4 knots. At 5 15 m sighted high land of Cape Guardafui bearing S E. Stopped ship and took cast of lead in 200 fms, no bottom. Went ahead full speed and at 5 50 m changed course to E by S (p c) patent log reading 41.0. At 8 m Cape Guardafui bore (p c) S S E.

H. H. Leaming.
Lieut U. S. N.

From 8 A. M. to Meridian

Clear and warm. Hazy around horizon. Light airs from E N E. At 8 m changed course to S E by E 1/2 E. at 9 45 to S E by S at 9 50 beat to Retreat Quarters: cast loose, 1st division in 4 m 25 s, 2d div in 2 m 32 s, 3d div in 2 m 5 s; Had Div in 2 m 5 s, Powder Div 2 m 41 s, Engineers Div in 1 m 00 s, Marines 1 m 15 s. Cleared at 9.50. Engaged cleaning ship. Land in sight on Starboard bow and beam. At 12.00 Cape Guardafui bore S S E 1/4 E, distant about fifteen miles. Steaming under four boilers, no sail. Revolutions 80. Steam 48.

Expended one roller for roller handspike broken at exercise

B. H. Wallace
Lieut U. S. N.

From Meridian to 4 P. M.

Smoggy clear with light cir-cumu clouds. Bright and pleasant. Light airs to breeze from S. S. E. Smooth Sea. At 12 m changes course to E. S. E. P. L. 4.0. At 1 m Sighted Socotra Island forward of port beam. At 2 m Set f and a. Sail. At 3 m Set foresail. At end of watch on course E. S. E. under f and a Sail and foresail and Steam. Cape Guardafui barely visible at end of watch. Steam 48. Revolutions 36.

C. A. T. Dayton
Ensign U. S. N.

From 4 to 6 P. M.

Clear and pleasant. Light breze from N. E. Sea smooth. At 5 m land was sighted from aloft bearing about N. E by E.

E. D. Galloway
Lieut U. S. N.

From 6 to 8 P. M.

Clear and pleasant. Light breze from N. E by N. Smooth Sea. Steam, foresail and fore and aft Sails. Course E by E. Lost sight of land on Starboard quarter at dusk.

H. H. Leaming.
Lieut U. S. N.

From 8 P. M. to Midnight

Clear and pleasant. Light breze from N. E and E by S. Smooth Sea. At 9 m changes course to S. E by E p. E. at 9 30 took in foresail and at 9 40 took in all Sail. Ship under Steam alone at end of watch. Steam 45

Rev. 38

B. H. Wallace
Lieut U. S. N.

Examined and found to be correct.

A. V. Wadhams Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex" 3d Rate,

At Sea making passage to Colombo.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a								
1	4	0	7.2	SE by E½ E	E by N	1-2			30.05	78	74	71	78	beau.	cir cum	8	S
2	4	0	13.9	"	"	1-2			30.05	78	74	71	78	"	"	8	"
3	4	6	21.6	"	"	1-2			30.05	78	76	72	78	"	"	6	"
4	4	8	29.3	"		1			30.03	78	76	71	74	b.c	cir	9	"
5	4	6	36.9	E. by E	East	1			30.03	74	76	71	74	"	"	8	"
6	4	6	44.5	"	"	2			30.03	74	76	71	74	"	"	8	"
7	6	9	51.4	"	"	2			30.02	78	74	72	74	"	"	8	"
8	6	6	58.0	"	E by S	2			30.10	78	74	71	74	"	cir cum	8	"
9	6	4	64.4	"	East	2	0		30.11	78	74	72	78	"	"	8	"
10	5	6	70.0	"	"	2	0		30.11	78	74	72	79	"	"	8	"
11	4	3	74.3	"		2	0		30.09	78	74	72	79	"	"	8	"
Noon.	4	2	84.5	"	E. N. E.	2	0		30.06	78	78	72	79	"	"	8	"

Course and distance made good since preceding noon by observations, E. by E½ E 46 17.6 knots tenths.

Dy. 1116

Position at Noon:
- Latitude by D. R. — N 11 ° 06' "
- Longitude by D. R. — E 52 ° 47' "
- Latitude by observations of ⊙ — N 11 ° 11' "
- Longitude by chronometer from ~~Forenoon~~ P.M. Observations of ⊙ — E 53 ° 53' "

Position at 8 a. m.
- Latitude by D. R — N 11 ° 20' "
- Longitude by Chro — E 53 ° 28' "

Position at 8 P. M.
- Latitude by D.R. — N 10 ° 58' "
- Longitude by Chro P.M. 20 — E 54 ° 30' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 4 58 " " E.S.E. W 3 ° 07' "

Water expended during the preceding 24 hours, 430 gallons.

Water ——— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 3380 "

Coal consumed during the preceding 24 hours, tons 1165 lbs.

Coal remaining on hand at Noon, 134 " 1265 "

P. M.											
1	Taking Deep Sea		E by N.	2		30.04	80	79	73	b.c	cir cum S S
2	Sounding		"	2		30.03	81	80	74	"	" 8 "
3	1	7 86.2	E. by E.	East	2	30.01	80	78	72	"	cum 6 "
4	4	2 93.4	"	N. E.	2	30.01	79	78	72	"	" 6 "
5	4	6 100.8	"	"	2	30.01	78	77	72	"	cir cum 6 "
6	8	0 108.2	"	"	2	30.04	78	77	72	"	" 5 "
7	4	8 16.2	"	"	2	30.05	78	77	72	"	" 5 "
8	4	4 23.4	"	"	2	30.02	78	77	72	"	cum str 7 "
9	4	2 30.6	"	N. E. by E.	2 0	30.08	78	78	74	"	" 8 "
10	4	4 38.0	"	"	2 0	30.09	78	78	74	"	" 8 "
11	4	8 45.8	"	"	2 0	30.08	78	78	74	"	" 8 "
Mid.	4	6 53.4	"	"	2 0	30.07	78	78	74	"	" 8 "

Zt: N.M.45
Dy 1117
Lo. E 55°

under the command of Commander T. F. Jewell, U. S. Navy,
Saturday November 20th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From Meridian to 4 P.M.

Clear & pleasant. Light breezes from East to E.N.E. Smooth sea. First attempt to get bottom were parted taking 5 of 5 turns of coir, 15 fms stray line, 1 Becknap cup and one sinker. Got cast No. 30 in 2 5/6 fms, bottom grey mud. Expended one (1) sinker. Cap came home, at 2:45 brought ship to course E.S.E. & ascertained full speed under steam & fore & aft sail. Steam 42. Revolutions 38.

T. Walling
First Lt. U.S.N.

From 4 to 6 P.M.

Partly clear with cir. cum clouds. Pleasant weather. Light breeze from E.N.E. Smooth sea. at end of watch, on course E.S.E. (p.c.), under fore & aft sail and steam. Steam 46. Revolutions 40.

A.T. Leighton
Ensign U.S.N.

From 6 to 8 P.M.

Fair & pleasant. Little breeze from E.N.E. Cumulus clouds passing over from E.N.E. Sea smooth. Ship rolling, gently to light swell from North.

E.D. Galloway
Asst. Eng. U.S.N.

From 8 P.M. to Midnight.

Clear & pleasant. Light breeze from N.E. by E. Smooth sea. Steam & fore & aft sail. Course E.S.E.

H.H. Gearing
Asst. Eng. U.S.N.

Examined and found to be correct.

F.V. Wadhams
First Navigator.

LOG of the UNITED STATES — Steamer "Essex" — 3d Rate,

At Sea making passage to London,

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a								
1	7	5	60.9	E. by S.	N.E. by E.	2			30.05	79	78	74	78	b.c.	cum str	8	S
2	7	7	68.6	"		2			30.04	79	78	74	78	"	"	7	"
3	7	4	76.0	"	E. by N.	2			30.03	79	78	74	78	"	"	6	"
4	7	8	83.8	"		2			30.03	79	78	74	78	"	"	7	"
	3	9	87.4														
5			Taking Dep. Sea		N.E. by E.	2			30.03	78	78	74	78	"	"	7	"
6			Sounding		"	2			30.06	78	78	74	78	"	cum str	6	"
Og 1146	7	5	91.2	E. by S.	"	2			30.09	79	78	77	78	"	"	8	"
N. 10°																	
L 56°.16'	8	6	98.5	"	"	2			30.10	79	78	74	80	"	"	7	"
	4	2	102.7														
9					N.N.E.	2			30.13	80	79	75	80	"	"	7	"
10			Sounding		"	3			30.13	81	79	76	80	"	"	8	"
11	5	0	4.7	E. by S.	"	3			30.11	81	80	74	80	"	"	9	"
Noon.	8	5	16.2	"	"	3			30.08	81	80	75	80	"	"	9	"

Course and distance made good since preceding noon by observations, S. E. by E. 3/4 E. 1/3 knots. tenths.

Og. 1146 Position at Noon:
- Latitude by D. R. — N 10 . 24 "
- Longitude by D. R. — E 55 . 59 "
- Latitude by observations of ⊙ — N 9 . 56 "
- Longitude by chronometer from Forenoon Observations of ⊙ — E 56 . 31 "

Position at 8 a. m.:
- Latitude by D.R. — N 10 . 02 "
- Longitude by Chron 20 00 00 — E 56 . 14 "

Position at 8 P. M.:
- Latitude by D.R. — N 9 . 46 "
- Longitude by Chron P.M. 20 00 00 — E 54 . 32 "

Current during the time, 1 knots 8 tenths per hour, setting to the S. E.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head — ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " — ° ' "

Variation of the Compass by Azimuth ⊙ observed at " — ° ' "

Variation of the Compass by Azimuth ⊙ observed at 8° " " E. S. E. — W 2 . 42 "

Water expended during the preceding 24 hours, 400 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1880 "

Coal consumed during the preceding 24 hours, 4 tons 130 lbs.

Coal remaining on hand at Noon, 12 4 " 1135 "

P. M.												
1	8	6	24.8	E. by S.	N.N.E.	3	2	30.04	81	80	74	80	b.c.	cir cum	7	S
2	8	4	33.2	"	"	3	2	30.02	80	80	74	80	"	"	7	"
3	8	1	41.3	"	"	3	2	30.00	80	79	74	81	"	"	7	"
4	7	4	48.7	E. 1/4 S.	"	3	2	30.00	80	79	74	80	"	"	7	"
5	6	9	55.6	"	"	3		30.01	80	80	74	80	"	"	7	"
6	7	3	62.9	"	"	3		30.04	80	79	74	80	"	"	7	"
7	7	4	70.8	"	N.E.	3		30.05	80	79	74	80	"	cum	7	"
8	7	5	78.8	"	"	3		30.08	80	80	74	79	"	"	7	"
9	7	0	86.8	"	N.E. by E.	3		30.09	80	80	74	79	"	cir	8	"
10	7	1	94.9	"	"	3		30.09	79	79	74	79	"	"	9	"
11	7	2	99.1	"	"	2		30.08	79	79	74	79	"	"	9	"
Mid.	3	5	102.6	Sounding	"	2		30.07	79	79	74	79	"	"	9	"

under the command of Commander T. F. Jewell, U. S. Navy,
Sunday November 21st, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commenced 1st Cutter 4 A.M.
Clear and pleasant. Light breeze from E.N.E. and N.E. by E. Smooth sea. Hove to at 1.52. At end of watch ship under steam and fore and aft sail. Steering a course E.S.E. Steam 49. Revolutions 42.

From 4 to 8 A.M.
Clear and pleasant. Light breeze from N.E. by E. Smooth sea. At 4 obtained soundings in P.L. reading 84 f. took in fore and aft sail and started sounding. Sinker detached at 345 fathoms reeled in and attached 2d sinker and got bottom, grey mud in 857 fms. Expended two sinkers. Finished sounding at 6m a.M. weighed and on course E.S.E. set fore and aft sail. Put over P.L. reading 84 f. At end of watch, on course E.S.E. under steam and fore and aft sail. Steam 48 Revolutions 41.
A. T. Long
Ensign U.S.N.

From 8 A.M. to Meridian
Clear beautiful weather. Little breeze from N.E. by E. Smooth sea. At 8m took in fore and aft sail and light spanker, brought ship head to wind and began sounding. Got cast No 32 fathoms 236 f bottom, grey mud and fine sand. At 10m stood course E.S.E. Set fore and aft sail and foresail.
E. D. Galloway
Lieut. U.S.N.

From Meridian to 4 P.M.
Clear and pleasant. Little breeze from N.N.E. Smooth sea. Steam fore and aft sail and foresail. Course E.S.E. till 3m when changed course to E.½S.
H. Helseaning
Lieut U.S.N.

From 4 to 6 P.M.
Clear and pleasant weather. Little breeze from N.N.E. Steering a course E.½S. under steam, foresail and fore and aft sail. Steam 48 Revolutions 41.
P.D.T. Waeing
Lieut U.S.N.

From 6 to 8 P.M.
Partly clear with cumulus clouds. Bright starlight. Little breeze from N.E. Smooth sea. At 6½m took in and furled foresail at end of watch on course E.½S. under fore and aft sail and steam. Steam 48 Revolutions 39.
A. T. Long
Ensign U.S.N.

From 8 P.M. to Midnight
Clear, warm and pleasant. Little breezes from N.E. by E. Smooth sea. At 11m took in fore and aft sails. Brought ship head to wind and stopped engines preparatory to sounding.
E. D. Galloway
Lieut U.S.N.

Examined and found to be correct.
S. V. Wadhams
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 30 Rate,

At Sea making passage to Bermuda

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a								
1	Sounding			E. 1/4 S.	N. N. E.	2			30.05	49	49	46	49	b.c.	str. cumb. cum.	7	S.
2	7	0	6.6	"	"	2			30.03	49	48	45	49	"	"	6	"
3	6	9	13.9	"	N. E. by N.	2			30.02	49	49	45	49	"	"	5	"
4	6	4	20.8	"	"	2			30.02	49	49	45	49	"	"	3	"
5	7	1	27.5	"	N. E. by E.	2			30.04	80	49	45	49	"	"	5	"
6	7	0	34.6	"	"	2			30.06	80	49	45	47	"	"	7	"
7	6	9	41.6	"	"	2			30.08	80	49	45	47	"	cir. str. cum. cir. cum.	6	"
8	6	4	48.5	"	"	2-4			30.10	80	49	45	48	b.c.q.	cir. cum.	7	"
9	6	6	54.8	"	"	3			30.12	82	50	46	80	b.c.	cir. cum.	8	"
10	5	8	61.4	"	N. E.	3			30.12	82	50	47	80	"	"	8	"
11	5	0	67.2	"	"	3			30.10	82	81	47	80	"	"	6	"
Noon.	7	0	73.9	"	"	3			30.08	82	81	47	81	"	"	6	"

Course and distance made good since preceding noon by observations, E. 1/4 S. 136 knots tenths.

Dq. 1146

Position at Noon:
- Latitude by D. R. N 9 .43. "
- Longitude by D. R. E 59 .19. "
- Latitude by observations of ⊙ N 9 .49. "
- Longitude by chronometer from Forenoon Observations of ⊙ E 58 .48. "

Position at 8 a. m.
- Latitude by L. L. N 9 .50. "
- Longitude by Chro Do Do Do E 58 .22. "

Position at 8 P. M.
- Latitude by D. R. N 9 .46. "
- Longitude by Chro P. M. Do Do E 59 .36. "

Current during the time, 1 knots 2 tenths per hour, setting to the W. by N.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 8 05 " E. 1/4 S. W 2 .30. "

Water expended during the preceding 24 hours, 400 gallons.

Water ——————— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1480 "

Coal consumed during the preceding 24 hours, 8 tons 650 lbs.

Coal remaining on hand at Noon, 119 " 485 "

P. M.													
1	6	8	81.8	E. 1/4 S.	N. E. by E.	3		30.05	82	81	b.c.	cir. cum.	7 S.
2	6	6	87.3	"	"	3		30.02	81	81	"	"	7 "
3	6	8	94.0	"	"	4		30.01	81	80	"	"	6 "
4	6	9	101.0	"	"	5		30.01	80	79	b.c.	"	6 "
5	6	5	7.5	"	N. E.	5	5	30.02	80	80	"	"	1 "
6	7	0	14.5	"	"	5	5	30.04	80	80	"	"	2 "
7	7	1	21.6	East	"	4		1/4 30.06	81	80	"	"	6 N.
8	7	0	28.6	"	"	4-5		1/4 30.08	81	80	"	"	7 "
9	7	3	36.0	"	"	4		30.10	81	81	"	cum str.	6 "
10			Sounding		"	4		30.09	81	80	"	"	6 "
11	4	2	34.2	East	"	3-4		30.09	81	80	"	"	7 "
Mid.	4	8	38.8	"	"	3-4		30.08	81	80	"	cum nim	8 "

under the command of Commander T. F. Jewell U. S. Navy,

Monday November 22, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences Mid Watch A. M.

Pleasant, clouding over last hour. Light breez from N. N. E. & N. E. by N. Sea smooth. Engaged in getting cast No. 30 water 120 when resumed course E. ¼ S. Got cast in 2364 fms. On sounding in found wire parted. Expended a Belknap Cup, 15 fms Staffline, 100 fms of wire & one sinker.

H. Heywood
Lieut U. S. N.

From 4 to 8 A. M.

Clear weather, rain squalls around horizon. Light breezes from N. E. by E. increasing to moderate breez in a squall at 7. 45 lasting about five minutes at 8. Took in fore & aft sail. At Sunder steam, above, on course E. ¼ S. Steam 8. Revolutions 37.

P. D. Wareing
Lieut U. S. N.

From 8 A. M. to Meridian

Partly clear with cir-cumm clouds. Pleasant. Gentle breez from N. E. by E. & N. E. Smooth sea. At 9. 10 Set fore & aft sail. Set clock ahead 9 minutes. Set up R. Tgalt & Royal Stays & Backstays. Went to Quarters at 9. 30 after which drilled as follows. 1st & 2d Divs Great Guns. 3d Div. Signals. Marines Bayonet Exercise. Took off Sounding reel 215 fms bad wire & put on 700 fms good. At end of watch under F. & A. Sail & Steam. Steam 49. Revolutions 3 ¼ 5.

E. A. F. Terhune
Ensign U. S. N.

From Meridian to 4 P. M.

Fair & pleasant. Light increasing to stiff breez from N. E. at 1. Exercised Apprentices of the watch below, at signals (A. & B. Code). Sea smooth at 2. 50 light shower of rain passed over.

T. Galloway
Lieut U. S. N.

From 4 to 6 P. M.

Cloudy & pleasant. Stiff breez from N. E. Smooth sea. Steam & fore & aft sail. Course E. ¼ S.

H. H. Heywood
Lieut U. S. N.

From 6 to 8 P. M.

Cloudy, pleasant weather. Moderate to stiff breez from N. E. at 6. 32 changed course to East. At end of watch under Steam & fore & aft sail. Steam 48. Revolutions 38.

P. D. Wareing
Lieut U. S. N.

From 8 P. M. to Midnight

Partly cloudy with cumu-strat & nimb clouds. Gentle to moderate breez from N. E. Moderate sea. At 8. 5 took in F. & A. Sail & stopped to sound. Hauled in P. L. reading 30. 0. Finished sounding at 10. 0, went ahead on course East & made F. & A. Sail. Put over P. L. reading 30. 0. Got bottom in 2306 fms, bottom grey mud & fine sand. Expended one sinker. At end of watch on course East under F. & A. Sail & Steam. Steam 50. Revolutions 28.

E. A. F. Terhune
Ensign U. S. N.

Examined and found to be correct.

S. V. W. Johnson.
Lieut & Nav Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

at Sea making passage to Colombo,

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a								
1	4	8	436	East	N E by N.	3			30.058	08	74	68	1	b.c.	cumr	6	S
2	4	6	48.4	"	"	3	2		30.048	08	74	68	1	b.c.h.	"	5	"
3	4	6	53.4	"	"	3	1		30.028	09	74	68	1	b.c.	"	4	"
4	4	8	58.8	"	"	3	2		30.028	09	74	68	1	"	"	8	"
5	1	2	60.0	"	"	2	2		30.038	08	07	68	1	"	"	6	"
6	1	6	61.6	S. W.	N N E.	2	0		30.058	08	07	68	1	"	"	6	"
7	6	8	68.4	"	"	2	0		30.078	08	07	68	1	b.c.h.	cir	5	"
8	6	6	75.0	"	"	3	0		30.098	08	07	68	1	b.c.	"	5	"
9			Sounding	"	"	3	0		30.108	18	27	68	1	"	cir cumr	5	"
10			Do		N. E by N.	2	0		30.098	18	27	68	1	"	"	5	"
11	3	4	78.4	South	N. E.	2	0		30.088	18	27	68	1	"	"	4	"
Noon.	4	3	85.4	"	"	2	0		30.068	18	17	68	1	"	"	6	"

Course and distance made good since preceding noon by observations, SE by E 3/4 E 18 knots tenths.

Position at Noon:
- Latitude by D. R. — N 9 .25. "
- Longitude by D. R. — E 60 .2. "
- Latitude by observations of ⊙ — N 9 .16. "
- Longitude by chronometer from Forenoon Observations of ⊙ — E 59 .47. "

Position at 8 a. m.:
- Latitude by D. R. — N 9 .32. "
- Longitude by Chron Do Do Do — E 59 .55. "

Position at 8 P. M.:
- Latitude by D. R. — N 9 .34. "
- Longitude by Chro P. M. — E. 60 .09. "

Current during the time, knots 1/2 tenths per hour, setting to the S. W. by W.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head — ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " — ° ' "

Variation of the Compass by Azimuth ⊙ observed at — ° ' "

Variation of the Compass by Azimuth ⊙ observed at 4 20. " N. E. 1/2 E — W 2 ° ' "

Water expended during the preceding 24 hours, 420 gallons.

Water ——— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1060 "

Coal consumed during the preceding 24 hours, 5 tons 1390 lbs.

Coal remaining on hand at Noon, 113 " 1335 "

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
P. M.																	
1	1	6	87.2 / 87.2	South / N. E. Sounding	N. E by N.	3			30.018	08	34	68	1	b.c.	cir cumr	3	S
2	1	4	89.9	N. E. 1/2 E.	"	3			30.008	08	24	68	1	"	" numb	6	"
3	5	4	95.2	"	"	3			29.988	28	14	68	1	b.c.d.g.	"	5	"
4	6	4	101.0	"	"	3			29.948	28	14	68	1	b.c.	cir cumr	5	"
5	6	4	7.8	"	"	3			29.998	28	14	68	1	"	cumr numb	5	"
6	6	2	12.4	"	"	3			30.008	28	14	68	1	"	"	4	"
7	5	3	17.7	"	N. E.	3			30.038	18	14	68	1	"	"	6	"
8	0	5	18.2	"	"	3			30.048	18	04	68	1	b.c.h.	"	4	"
9	3	5	21.7	East	"	3.5			30.058	08	04	68	1	b.c.	"	2	"
10	6	4	28.4	"	"	3.5	3	1/4	30.058	18	04	68	0	b.c.h.g.	"	2	"
11	5	9	34.3	"	"	3-6	4	1/4	30.038	08	04	68	0	"	"	5	"
Mid.	5	8	40.1	"	"	4-6	4	1/4	30.018	08	14	68	0	"	"	7	"

under the command of Commander T. F. Jewell, U. S. Navy,

Tuesday November 23d, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From Meridian to 4 P.M.

Partly clear, pleasant. Cumulous clouds. Squally appearance 2d & 3d hour. Light drizzle just after 2. Gentle breeze from N.E. by N. Smooth sea. At 12 took in F. & A. sail & changed course to N.E. P.L. 84.2. At 12.29 commenced sounding, finished, at 1.30 & started ahead on course N.E. by E.; patent log reading 88.2. Got bottom in 2060 fms, bottom grey mud & fine sand. Expended one sinker. Cast 3d. At 3 started fires in boilers 6 & 8 for distilling. At end of watch on course N.E. by E. under steam alone. Steam 50. Revolutions 36.

Ens. F. Jewell
U. S. N.

From 4 to 6 P.M.

Fair & warm. Gentle breeze from N.E. Light rain squalls passing along horizon. Ship rolling, gently from 5° to 10°. Sea smooth.

D. W. Galloway
Asst. U. S. N.

From 6 to 8 P.M.

Cloudy & cool. Gentle breeze from N.E. Smooth sea. At 7.08 stopped ship, patent log 18.2, to take a cast with deep sea machine. Engaged in sounding at end of watch.

H. H. Gregory
Asst. U. S. N.

From 8 P.M. to Midnight

Cloudy with drizzling rain. Heavy clouds passing over with sudden shifts of wind to E. and moderate to fresh squalls lasting only a few minutes. At 8.26 started ahead on course East & set F. & A. sail. At 8.50 took in flying Jib. Gaff topsail & rig T.R. staysail. Ship pitching easily. Sea moderate and increasing. At end of watch ship under steam, Jib, F.T.M. staysail, M. topsail & spanker. Steam 50. Revolutions 36.

Got cast No. 38 in 2063 fms. bottom grey mud and sand. Expended one (1) sinker

Distilling

B. F. Wallace
Asst. U. S. N.

Examined and found to be correct.

J. V. Vreeland
Asst. U. S. Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to Colombo

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a								
1	6	0	46.0	East	N.E.	3	2		30.008	28	1/4	68	0	b.c.q.	cum	2	M
2	6	0	52.6	"	E.N.E.	3	0		29.998	28	1/4	68	0	b.c.	cum	8	"
3	6	0	63.3	"	"	3			29.998	28	1/4	68	0	"	"	8	"
4	6	1/4	63.3	"	"	3			29.998	18	1/4	68	0	"	"	8	"
5	5	0	68.3	"	East	3			30.008	18	1/4	68	0	"	"	8	"
6	5	1	73.4	"	E by N	3			30.028	18	1/4	68	0	"	"	8	"
7	5	0	78.4	"	East	3			30.048	28	1/4	68	0	"	"	8	"
8	5	1	83.5	"	"	3			30.048	38	1/4	68	0	"	"	7	"
9	4	1/4	88.2	"	E.N.E.	3	0		30.088	48	1/4	78	1	"	"	7	M
10	5	0	93.1	"	"	3	0		30.088	48	1/4	78	1	"	"	7	"
11	4	9	98.0	"	"	3	0		30.068	48	1/4	78	1	"	"	7	"
Noon.	5	5	103.0	"	"	3	0		30.028	28	1/4	78	1	"	"	7	"

Course and distance made good since preceding noon by observations, E. 3/4 N. 96 knots. tenths.

Position at Noon:
- Latitude by D. R. — N. 9 ° 34 "
- Longitude by D. R. — E. 61 ° 38 "
- Latitude by observations of ⊙ — N. 9 ° 29 "
- Longitude by chronometer from Forenoon Observations of ⊙ — E. 61 ° 26 "

Position at 8 a. m.
- Latitude by D.R. — N. 9 ° 39 "
- Longitude by Chro do do do — E. 61 ° 26 "

Position at 8 P. M.
- Latitude by D.R. — N. 9 ° 29 "
- Longitude by Chro D.R. do do — E. 62 ° 00 "

Current during the time, knots .5 tenths per hour, setting to the W. S. W.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head — ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " — ° ' "

Variation of the Compass by Azimuth ⊙ observed at " — ° ' "

Variation of the Compass by Azimuth ⊙ observed at 4 P.M. " East — W. 1 ° 58 "

Water expended during the preceding 24 hours, 400 gallons.

Water Distilled during the preceding 24 hours, 250 "

Water remaining on hand fit for use at Noon, 1200 "

Coal consumed during the preceding 24 hours, 10 tons 1805 lbs.

Coal remaining on hand at Noon, 104 " 50 "

P. M.														
1	5	3	8.8	East	E.N.E.	3		30.018	28	3/4	81	b.c.	cir cum	6 M
2	5	5	14.3	"	"	3		29.998	28	3/4	81	"	"	6 "
3	5	8	20.1	"	"	3		29.998	28	3/4	81	"	"	6 "
4	5	8	25.9	"	"	3		29.998	18	3/4	81	"	"	6 "
5	0	1	26.0	Sounding	N. E by E.	3		29.998	28	1/4	81	"	"	7 "
6	4	0	30.1	East	"	3		29.998	28	1/4	81	"	"	7 "
7	6	6	36.6	"	"	3	0	30.008	28	1/4	81	"	cir cum	8 "
8	6	6	43.9	"	"	3	0	30.028	28	1/4	80	"	cir cum	8 "
9	5	8	49.7	"	"	3	0	30.05	28	1/4	81	"	"	8 "
10	6	6	56.3	"	"	3	0	30.04	28	1/4	81	"	"	8 "
11	7	0	63.3	"	"	3	0	30.04	28	1/4	81	"	"	8 "
Mid.	6	7	70.0	"	N. E.	3	0	30.02	18	1/4	81	"	"	8 "

under the command of Commander T. F. Jewell, U. S. Navy,

Wednesday November 3rd, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences Wd Until 4 A. M.

Partly clear with cum & cumb clouds. Squally first hour, gentle to stiff breez from N. E. at 1.30 wind shifted to E. N. E. in gentle breez. Took in f. & a. sail. Moderate sea from N. E. Ship rolling easily. At ends of watch, on course East, under Steam alme. Steam 50. Revolutions 38. Distilling

A. T. Ferguson
Ensign U. S. N.

From 4 to 8 A. M.

Clear & pleasant. Light breez from East. Small broken sea. Gentle swell from East. Passing cir. cum clouds from East. At 4.30 Ensign Rodman observed a comet bearing E. N. E. 3/4 E. Lat. N. Long E. Altitude 2, tail tended to the North. Sun covered, about 4° of arc. Distilling.

C. D. Galloway
Lieut U. S. N.

From 8 A. M. to Meridian.

Clear warm & pleasant. Gentle E. N. E. wind. Moderate sea with wind. Steam alme, course East. At 9.30 quarters for inspection. First Div. Single stick, 2d & 3d. Divs. instruction in Gunnery, Wad Div. Signals. Distilling.

N. E. Irwin
Lieut U. S. N.

From Meridian to 4 P. M.

Clear & pleasant. Gentle breezes from E. N. E. Moderate head sea. At 4:00 slowed down to take cast of lead. Ship under steam alme on course East. Steam 50. Revolutions 31. Distilling.

D. W. Wadhams
Lieut U. S. N.

From 4 to 6 P. M.

Partly clear with cir. cum clouds. Gentle breez from N. E. by E. Sea moderate. At 4 stopped to take sounding. Finished at 5.20 having got bottom at 20 11 fms. Gray mud. Cast No 39. Expended one sunken buoy ahead, on course East at 5.20. Put over P. L. reading 26. At end of watch, on course East, under steam alme. Steam 50. Revolutions 30. Distilling.

A. T. Ferguson
Ensign U. S. N.

From 6 to 8 P. M.

Clear & pleasant. Gentle breez from E. by N. Broken sea. Ship pitching & rolling, gently. Distilling.

C. D. Galloway
Lieut U. S. N.

From 8 P. M. to Midnight

Clear & pleasant. Gentle breez from N. E. by E. & N. E. Smooth sea. Course East. At 11.30 set f. & a. sail except mizzen topmast staysail & gaff topsail. Distilling.

N. E. Irwin
Lieut U. S. N.

Examined and found to be correct.

W. W. Wadhams
Lieut Navigator.

LOG of the UNITED STATES Steamer "Essex", 2d Rate,

At Gravesend passage to Dunbo

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	6	5	26.5	East	N. N. E.	2			30.00	80	80	74	80	bc	cumu	8	L.
2	7	3	83.8	"	"	3			29.98	80	81	75	80	"	"	8	"
3	7	4	91.2	"	"	3			29.98	80	80	74	80	"	"	8	"
4	7	1	98.3	"	"	3			29.98	80	80	74	80	"	"	8	"
5	7	2	105.5	"	N. E. by N.	3			30.00	80	80	75	80	"	cir-cir	8	L.
6	7	2	113.0	"	"	3-4			30.00	80	80	74	80	"	cir-cumu	7	"
7	7	4	120.5	"	"	3-4			30.03	81	80	74	80	"	"	7	"
8	7	1	127.6	"	"	3-4			30.04	81	80	74	80	"	"	7	"
9			Sounding		N. E.	3			30.06	81	80	74	80	"	cir	8	"
10	4	0	31.9	East		3			30.06	81	81	74	80	"	cir-cumu	8	"
11	6	6	37.8	"	E. N. E.	3			30.06	82	82	74	81	"	"	8	"
Noon.	6	6	44.0	"	"	3			30.03	83	83	74	81	"	"	8	"

Course and distance made good since preceding noon by observations, East 126 knots. tenths.

Position at Noon:
- Latitude by D. R. — N 9 ° 29. "
- Longitude by D. R. — E 63 ° 48. "
- Latitude by observations of ⊙ — N 9 ° 29. "
- Longitude by chronometer from Forenoon Observations of ⊙ — E 63 ° 30. "

Lat. 9.1147

Position at 8 a. m.
- Latitude by D.R. — N 9 ° 29. "
- Longitude by Chro Do Do Do — E 63 ° 13. "

Position at 8 P. M.
- Latitude by D.R. — N 9 ° 24 "
- Longitude by Chro PM Do Do — E 64 ° 22 "

Current during the time, knots .5 tenths per hour, setting to the West

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 4h 20m " W 1 ° 15' "

Water expended during the preceding 24 hours, 400 gallons.

Water Distilled during the preceding 24 hours, 1600 "

Water remaining on hand fit for use at Noon, 2600 "

Coal consumed during the preceding 24 hours, 10 tons 1825 lbs.

Coal remaining on hand at Noon, 93 " 485 "

P. M.												
1	5	1	50.5	East S. by E. ½ E.	E. N. E.	3	0	30.00	83	83	bc	cumulo 8 L.
2	7	0	57.4	"	N. E.	3	0	29.99	83	82	74	98 " 8 "
3	7	6	64.5	"	"	3	0	29.96	83	82	74	98 cir 6 "
4	7	2	71.7	"	"	3	0	29.95	83	81	74	98 " 7 "
5	6	7	78.4	"	"	3	0	29.96	81	81	74	98 " 7 "
6	6	8	85.2	"	"	3		29.99	81	82	74	98 " 6 "
7	7	6	92.8	"	N. N. E.	3		30.01	80	80	74	98 cumu 6 "
8	7	8	100.	"	"	2-3		30.03	80	80	74	98 " 5 "
9	3	6	5.4	"	N. E.	3		30.04	80	80	74	98 " 6 "
10	6	8	14.9	"	"	3		30.04	80	80	74	98 " 7 "
11	7	0	18.7	"	"	3		30.03	80	80	74	98 " 8 "
Mid.	7	5	25.2	"	"	2		30.01	81	80	74	98 " 8 "

under the command of Commander T. F. Jewell, U. S. Navy,

Thursday November 25th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.

Clear pleasant weather. Light to gentle breze from N. N. E. Long swell from N. E. at 1.20 set Jaff Topsails & Royal Topmast Staysail. Steering a course East, under steam & fore & aft Sail, at end of watch. 1 Distilling. Steam 30. Revs 60.

D. Harris
Lieut U. S. N.

From 4 to 8 A. M.

Partly clear with cir & cir-cumu clouds. Gentle to moderate breze from N E by N. Smooth sea with long N. E by swell. At 7.30 made out a comet in Southern heavens bearing about N 68° E. At end of watch on course East. Under fore and Sail & steam. Steam 50. Revolutions 41. Distilling.

A. F. Dayton
Ensign U. S. N.

From 8. A. M. to Meridian.

Clear & pleasant. Moderate breze from E by E. at 8 o. Stopped engine for sounding. Got cast No 6 2535 fms grey mud at 9 h. Started ahead on course East. Under steam & fore & aft Sail. Expended one sinker. At 9.30 mustered at quarters. Exercise "Thanksgiving Day". At 11 h. took in fore & aft Sail. Sea smooth & broken. Distilling.

E. D. Galloway
Lieut U. S. N.

From Meridian to 4 P. M.

Clear & pleasant. Gentle breze from E by E & N. E. Sea smooth. At 12 changed course to E. S. E. At 1.30 Set fore & aft Sail except Staysail & Jaff Topsails. Distilling.

N. Heaps
Lieut U. S. N.

From 4 to 6 P. M.

Clear pleasant weather. Gentle breze from N. E. At 4 h. hauled fires from boilers 6 & 8. Stopped distilling at 4.30. Under steam & fore & aft Sail. On course E. S. E. Steam 50. Revolutions 41.

D. Harris
Lieut U. S. N.

From 6 to 8 P. M.

Clear & pleasant. Light to gentle breze from N. N. E. Under steam & fore & aft Sail. Course E. S. E. Steam 48. Revolutions 39.

A. F. Dayton
Ensign U. S. N.

From 8 P. M. to Midnight.

Clear & pleasant. Gentle breze from N. E. Broken sea. At 8 h. broken water was reported off short board & bow. Slowed & stopped engines. Got cast lead (Thomsons) 120 fms no bottom. Changed course to West & stood back 9 miles on course West. Got cast 85 fms no bottom. Observed same appearance of water at 8.30 Examined by large quantities of phosphorescent animalcule apparently. Stood course E. S. E.

Examined and found to be correct.

E. D. Galloway
Lieut U. S. N.

S. P. Marsh
Navigator.

LOG of the UNITED STATES Steamer "Essex" 3d Rate,

At Sea making passage to Colombo.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.															cir-cum.		
1	4	6	32.2	E. 1/2 S.	N. E.	3	0		30.008	80	74	68		b c.	cum-st	5	S
2	2	8	36.0	Sounding	N. E. by N.	3	0		29.988	80	74	68		"	"	5	"
Dg. 1148 3	3	2	38.2	E. 1/2 S.	"	3	0		29.978	80	74	68		"	"	6	"
N 9° W 4	4	2	42.4	"	"	3	0		29.968	80	74	68		"	"	6	"
E 65° 5	4	3	52.7	"	"	3			29.948	80	80	74	68	b c.	"	6	"
6	4	2	59.9	"	"	3			29.998	80	80	74	68	"	"	4	"
7	4	8	64.7	"	"	3			30.008	80	80	74	68	"	"	5	"
8	4	5	45.2	"	"	2			30.038	80	80	74	68	"	"	6	"
9	4	2	82.0	"	"	3			30.058	80	74	68		"	cir-cum.	7	"
10	6	9	88.9	"	"	2-3			30.058	80	74	68		"	"	8	"
11	6	2	95.1	"	"	2-3			30.048	28	74	68		"	"	8	"
Noon.	4	1	102.2	"	"	2-3			30.038	28	74	68		"	"	8	"

Course and distance made good since preceding noon by observations, E. 3/4 S. 125 knots. tenths.

Position at Noon:
- Latitude by D. R. — N 9 ° 21 ' "
- Longitude by D. R. — E 66 ° 09 ' "
- Latitude by observations of ⊙ — N 9 ° 06 ' "
- Longitude by chronometer from Forenoon Observations of ⊙ — E 65 ° 55 ' "

Dg. 1148

Position at 8 a. m.
- Latitude by D.R. — N 9 ° 09 ' "
- Longitude by Chro Do Do Do — E 65 ° 28 ' "

Position at 8 P. M.
- Latitude by D.R. — N 9 ° 04 ' "
- Longitude by Chro P.M. Do Do — E 66 ° 38 ' "

Current during the time, knots 75 tenths per hour, setting to the S.W. 1/4 W.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 8.06 " E 1/2 S W 1 ° 24 ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 440 gallons.

Water Distilled during the preceding 24 hours, 550 "

Water remaining on hand fit for use at Noon, 2450 "

Coal consumed during the preceding 24 hours, 8 tons 1685 lbs.

Coal remaining on hand at Noon, 84 " 1040 "

P. M.																	
	1	2	3.4	E. 1/2 S.													
1	5	8	9.2	E. 1/4 S.	N. E.	3			30.018	28	74	68		b c.	cir-cum	9	S
2	4	0	16.0	"	"	3			29.988	28	74	68		"	"	7	"
3	6	9	23.0	"	"	3			29.998	28	74	68		"	"	5	"
4	4	0	30.0	"	"	3			29.998	28	74	68		"	"	2	"
5	3	5	33.5	Sounding	"	2	0	1/4	29.998	28	74	68		"	"	2	"
6	1	1	34.6	E. 1/4 S.	"	2	0	1/4	29.998	28	074	68		"	"	2	"
7	4	8	42.4	"	"	2			30.008	180	74	68		bcy	"	3	"
8	4	1	49.5	"	"	2			30.028	180	74	68		"	"	2	"
9	4	6	56.4	"	N. E. by N.	2-3			30.038	18	74	68		b c.	"	8	"
10	4	0	63.5	"	"	2-3			30.038	18	74	68		"	"	8	"
11	4	2	70.6	"	"	3			30.028	18	74	68		"	"	8	"
Mid.	4	0	79.5	"	"	3			30.038	18	74	68		"	"	7	"

under the command of Commander T. T. Jewell, U. S. Navy,
Friday November 26th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until A.M.

Clear and pleasant. Gentle breeze from N.E by N. Sea smooth. Under steam and fore and aft sail. At 12 hoisted patent log 33. Stopped engines and took cast No 41 in 24 fms fine bottom grey mud. Expended one sinker. Veered ahead on course E. ½ S. at 2.

H. Helmering
Lieut U.S.N.

From 4 to 8 A.M.

Fair pleasant weather. Gentle breeze from N. E by N. Under steam and fore and aft sail on course E. ½ S. Sea smooth. Steam 48. Revolutions 38. At 7.30 set clock back three (3) minutes.

B. H. Helming
Lieut U.S.N.

From 8 A.M. to Meridian.

Partly clear bright warm. Cumulus clouds. Light to gentle breeze from N.E by N. Smooth sea. At 9.00 went to Quarters. All ready in 3m 20s. Secured in 4m 5s. Tried and found in good order the magazine flood cocks. By order of Duty Officer put 2 Dobbins 16 apt. on head to water for two days for inspection to Capt of Top. Atkins of watch on course E. ½ S. under fore and aft sail and steam. Steam 48. Revolutions 38.5.

Ens. U.S.N.

From Meridian to 4 P.M.

Cloudy and pleasant. Light to gentle breeze from N.E by N. and N.E. Sea smooth. At 12.00 changed course to E. ¼ S.

Lieut U.S.N.

From 4 to 6 P.M.

Cloudy and pleasant. Light N.E breeze. Smooth sea. At 4.33 stopped ship, patent log 33.5 and took cast No 42. In pulling out the wire parted having a Bickmore cup, 15 fms spare line and one sinker. Sent a Lighter Cup and got cast in 248 fms, bottom clay. Expended 2 sinkers, one Bickmore Cup and 80 fms stray line.

H. Helmering
Lieut U.S.N.

From 6 to 8 P.M.

Overcast, hazy and calm. Light breeze from N.E. Under steam and fore and aft sail, on course E. ¼ S. At 6.25 Forward fire alarm. All steam in 1m 55s. Steam 49. Revolutions 39.

B. H. Helming
Lieut U.S.N.

From 8 P.M. to Midnight.

Partly clear, bright starlight. Pleasant. Cumulus and warm clouds. Light to gentle breeze from N.E by N. Smooth sea. At end of watch on course E by S. Under fore and aft sail and steam. Steam 49. Revolutions 39.

Ens. U.S.N.

Examined and found to be correct.

A. V. Wadhams. Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to Colombo

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a								
1	4	0	84.5	E 1/4 S	E by N	3-4			29.998	81	74	81		bc	cumu	8	S
2	6	5	91.0	"	E by N	3-4			29.948	81	74	81		"	cumb	5	"
3	6	2	97.2	"	"	3			29.968	80	74	68		"	"	1	"
4	5	4	2.9	"	"	3			29.968	80	74	68		"	cir cumu	8	"
5	5	6	9.5	"	"	3			29.948	80	74	81		"	cumu str	8	"
6	6	1	14.6	"	"	2			29.98	81	74	68		"	"	8	"
7	6	6	21.2	"	N E by E	2			29.988	80	74	68		"	"	8	"
8	6	2	27.4	"	"	2			30.008	81	74	81		"	"	8	"
9	4	5	31.9	"	"	2			30.038	81	74	81		"	cir	2	"
10	0	5	32.4	"	N E	2			30.058	83	74	88		"	"	8	"
11	6	3	38.4	"	"	2			30.048	82	74	88		"	"	2	"
Noon.	6	8	45.5	"	"	2			30.018	82	74	88		"	"	5	"

Course and distance made good since preceding noon by observations, E 1/2 S 13.0 knots. tenths.

Pg. 1148

Position at Noon:
- Latitude by D. R. — N 8 ° 59' "
- Longitude by D. R. — E 68 ° 13' "
- Latitude by observations of ⊙ — N 8 ° 56' "
- Longitude by chronometer from Forenoon Observations of ⊙ — E 68 ° 06' "

Position at 8 a. m.:
- Latitude by D. R. — N 8 ° 54' "
- Longitude by Chrs Do Do Do — E 67 ° 48' "

Position at 8 P. M.:
- Latitude by D. R. — N 8 ° 53' "
- Longitude by Chrs P. M. Do Do — E 69 ° 00' "

Current during the time, knots .3 tenths per hour, setting to the S W by W

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 8 " 02 " E 1/4 S W 0 ° 52' "

Water expended during the preceding 24 hours, 4 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2350 "

Coal consumed during the preceding 24 hours, 4 tons 1740 lbs.

Coal remaining on hand at Noon, 76 " 1540 "

P. M.												
1	6	6	52.1	E 1/4 S	N E by N	2-3	29.978	81	74	82	bc	cir cumu	4	S
2	6	4	08.4	"	"	2-3	29.958	82	74	82	"	"	4	"
3	6	6	65.8	"	"	2-3	29.948	82	74	82	"	"	6	"
4	6	8	72.0	"	"	2-3	29.938	82	74	82	"	"	4	"
5	4	2	79.2	"	"	3	29.958	81	74	81	"	"	6	"
6	4	0	86.5	"	"	2	29.968	81	74	81	"	"	6	"
7	4	5	94.0	"	N E	2	29.998	82	74	81	b.c.	"	4	"
8	4	0	1.0	"	"	3	30.028	82	74	81	"	"	4	"
9	6	4	7.4	"	"	3	30.048	81	83	81	"	cumu numb	4	"
10	6	9	14.6	"	"	3	30.038	82	74	81	"	"	3	"
11	4	6	22.2	"	"	3	30.018	82	74	81	"	"	1	"
Mid.	6	4	28.9	"	"	3	30.018	82	74	81	b.c.f.	"	2	"

under the command of Commander T. F. Jewell, U. S. Navy,
Saturday November 27th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Gentle & A. M.
Fair and pleasant wind moderate breeze from N. E by N. Passing heavy cumulous first part clear with gentle breeze from E by N. Latter part at 2h 0m took in fore and aft sails. Sea calm. Gentle current from North. Hit pulling cutter 5m.

C. F. Galloway
Lieut U. S. N.

From 4 to 8 A. M.
Clear and pleasant Gentle to light-breeze from E by N. to N. E by E. Sea smooth. Steam as required. Course E 1/4 S.

H. E. Fleming
Lieut U. S. N.

From 8 A. M. to Meridian.
Clear and pleasant Light-breezes from N. E by E and N. E. at 8.40 stopped and got cast N 43° W 2+9/10 fms clay bottom. Cut came up at 9.45. went ahead full speed set fore and aft sail. Course E 1/4 S. at 9.59 set clock ahead 6 minutes. Expended one (1) sinker at end of watch under steam and fore and aft sail. Steam 7. Revolutions 36.

F. F. Wessing
Lieut U. S. N.

From Meridian to 4 P. M.
Partly clear, bright, pleasant & cumulous clouds. Light to gentle breeze from N. E. by N. Smooth Sea. at 1.30 sighted a Steamer on Starboard quarter when abeam exchanged colors with her and found her British. Arrived at watch on course E 1/4 S. under fore and aft Sail and Steam. Steamer bore 2 pts forward starboard beam. Steam 45. Revolutions 35.

C. A. Dempsey
Surgeon U. S. N.

From 4 to 6 P. M.
Fair and warm. Gentle breeze from N. E. by N. at 4h 0m set foresail at 5h 0m took in and furled foresail. Sea smooth.

C. F. Galloway
Lieut U. S. N.

From 6 to 8 P. M.
Fair weather. Gentle breeze from N. E. Smooth Sea. Frequent lightning behind bank of clouds in N. E horizon. Steam and fore and aft Sail. Course E 1/4 S.

H. E. Fleming
Lieut U. S. N.

From 8 P. M. to Midnight.
Overcast and pleasant. Gentle breezes from N. E. Under Steam and fore and aft sails. On course E 1/4 S. Sea smooth. Steam 44. Revolutions 36.

F. F. Wessing
Lieut U. S. N.

Examined and found to be correct.

A. V. Wadhams. Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex" , 3d Rate,

at Sea making passage to Colombo.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.				E. 1/4 S.	East	2			30.008	28	1/4	88	1	vclr	cirrus	0	S.
1	2	6	31.5	Sounding													
2	2	4	33.9	E. 1/4 S.	N. N. E.	3			29.9	4	28	1/4	88	bc	cir cum	2	"
3	2	6	46.5	"	N. E. by N.	3			29.95	8	28	1/4	88	"	"	8	"
4	2	6	49.0	"	"	3			29.9	5	28	1/4	88	"	"	9	"
Obs 11 4/9 N 8°-51	2	3	56.5	"	"	3			29.96	8	28	1/4	88	"	"	6	"
E 70	6	2	64.0	"	"	3			29.9	4	8	38	1/4	88	"	"	6	"
7	2	0	41.4	"	"	3			30.00	8	38	1/4	88	"	"	6	"
8	2	0	48.4	"	"	3			30.03	8	38	2/4	88	"	"	6	"
9	2	6	76.3	"	N. E.	3	0		30.0	4	8	38	2/4	88	"	"	2	"
10	2	0	86.3	"	"	3	0		30.0	4	8	38	2/4	88	"	"	2	"
11	5	2/4	99.0	"	N. E. by E.	3	0		30.0	4	8	38	3/4	88	"	"	5	"
Noon.	2	4	6.4	"	"	3	0		30.00	8	38	3/4	88	"	"	"	2	"

Course and distance made good since preceding noon by observations, E. 1/4 S. 154 knots. tenths.

Position at Noon:	Latitude by D. R.	N	8 ° 48' "
	Longitude by D. R.	E	20 ° 49' "
Obs 11 4/9	Latitude by observations of ⊙	N	8 ° 50 "
	Longitude by chronometer from Forenoon Observations of ⊙	E	20 ° 4' "
Position at 8 a. m.	Latitude by DR	N	8 ° 51' "
	Longitude by Chro. 20 20 20	E	20 ° 15' "
Position at 8 P. M.	Latitude by DR	N	8 ° 40' "
	Longitude by Chro. DR. 20 20	E	21 ° 33' "

Current during the time, knots 3 tenths per hour, setting to the WNW.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 8°08 " " W 0 ° 44 "

Water expended during the preceding 24 hours, 450 gallons.

Water ——— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1930 "

Coal consumed during the preceding 24 hours, 2 tons 16 2/5 lbs.

Coal remaining on hand at Noon, 68 " 2 2/5 "

P. M.														
1	6	5	6.9	E. 1/4 S.	N. E. by E.	2		29.9	4	8	8	3	bc	cir cum
2	2	2	21.4	"	"	1		29.9	5	8	4	8	3	" "
3	2	5	38.9	"	"	1		29.9	4	8	4	9	3	" "
4	2	6	31.5	"	"	1		29.9	3	8	4	9	3	" nimb cir
5	5	6	3/4.0	"	"	1		29.9	4	8	3	4	9	2 cum str
6	2	4	44.3	"	N. E. by N.	2		29.9	6	8	3	4	9	3 "
7	2	6	52.0	"	N. E. by E.	2		29.9	8	8	2	4	8	2 bcp cum nimb
8	2	6	59.2	"	"	2		30.0	0	8	3	8	2	2 bc "
9	2	5	66.9	"	"	2	0	30.0	4	8	3	8	2	2 bcu "
10	2	3	74.2	"	East	1	0	30.0	4	8	3	8	2	1 " "
11	2	6	81.8	"	E. N. E.	1	0	30.0	0	8	2	8	1	" "
Mid.	2	6	89.4	"	"	1	0	30.0	0	8	2	8	1	" "

under the command of Commander T. F. Jewett, U. S. Navy,

Sunday November 25th, 1866.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M.

Partly clear with a passing shower first hour. Cloudy. Light and cir-cum clouds. Light breze from East first hour. Gentle breze N. N. E and N. by N. afterwards. Smooth sea. At 12 20m stopped and took in head sail. Commenced sounding at 12 30m finished at 1 30m when got ahead on course E. 4 S. and set head sail. Last No 4 in 2068 fms bottom clay. Expended one sinker. At end of watch on course E 4 S. under F and A. sail and steam. Steam 50. Revolutions 41.

C. A. Jeffers
Ensign U. S. N.

From 4 to 8 A. M.

Clear and pleasant. Gentle breze from N. E. by N. Sea smooth.

E. Galloway
Lieut U. S. N

From 8 A. M. to Meridian.

Clear and warm. Light breze from N. E and N. E. by E. Smooth Sea. Steam and F and A. sail. Course E. 4 S. Sudries at 9 30m when Sunday Divine inspected ship and crew. Held divine service, at 10 30 Sunday Sunday officiating

D. Heffernan
Lieut U. S. N.

From Meridian to 4 P. M.

Clear pleasant, weather. Light airs from N. E. by E. Sea smooth. At 12:05 changed course to E. by S. At 3:30 stopped to take cast No 4 5 of dup Sea lead in 2130 fms clay bottom. Expended one (1) sinker

D. Darrin
Lieut U. S. N.

From 4 to 6 P. M.

Partly clear with cir. cum and cum clouds. Light airs from N. E. by E 1st hour. Light breze from N. E. by N. 2d hour. Smooth sea with long N. E. Swell. Finished sounding at 4 P. M. when got ahead on course, set F and A. Sails and put over patent log reading 31.5. Last No 4 to 5 2140 fms clay bottom. Expended one (1) sinker. At end of watch, on course E. by S, under F and A sail and steam. Steam 48. Revolutions 36.

C. A. Jeffers
Ensign U. S. N.

From 6 to 8 P. M.

Fair and pleasant. Gentle breze from N. E. Light passing shower of rain during first hour. Sea Smooth.

E. Galloway
Lieut U. S. N.

From 8 P. M. to Midnight.

Cloudy first part. Clear overhead last part with a haze about horizon. Light airs from E. N. E. Sea smooth. Moon set, at 8 10. At 8 30 took in F and A. Sail. Steam, almost out of water. Course E. by S.

D. Heffernan
Lieut U. S. N.

Examined and found to be correct.

D. W. Mac Layne
Lieut Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

at Sea making passage to Cobb

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.															cir		
1	2	1	91.5	Sounding	E. N. E.	2			29.97	81	81	78	81	b. cu.	nimb	7	S.
2	3	6	95.1	E. by S.	N. E. by E.	2			29.95	81	81	78	81	b. c.	"	5	"
3	4	6	2.7	"	"	2			29.93	81	79	78	82	"	"	6	"
4	4	4	10.4	"	"	2			29.94	81	79	78	82	"	"	7	"
5	4	6	18.0	"	N. E. by N.	2			29.92	81	80	76	82	b. cu.	"	9	"
6	4	6	25.6	"	"	2			29.98	81	80	76	82	b. c.	"	8	"
7	1	3	26.9	Sounding E. by S.	"	2			29.99	81	80	76	82	"	cir. cum.	8	"
8	4	6	34.4	"	"	2			30.01	81	81	76	82	"	"	8	"
9	3 2	8 3	38.2	"	N. E. by E.	2			30.03	82	82	79	82	"	cir	8	"
10		8 9	44.3 44.6	E. by S. 3/4 E. E. by S. 1/4 S.	"	2			30.03	82	82	79	82	"	"	8	"
11	4	2	51.1	"	"	2			30.09	82	82	79	82	"	"	8	"
Noon.	8	1	59.0	"	"	3			30.00	82	82	79	82	"	"	8	"

Course and distance made good since preceding noon by observations, E. by S. 3/4 S. 12.0 knots tenths.

Position at Noon:	Latitude by D. R.	N. 8	0.15. "
	Longitude by D. R.	E. 2/3	0.10. "
Of 1149	Latitude by observations of ⊙	N. 8	0.14 "
	Longitude by chronometer from Forenoon Observations of ⊙	E. 2/3	0.01. "
Position at 8 a. m.	Latitude by	N. 8	0.24 "
	Longitude by	E. 2/3	0.38. "
Position at 8 P. M.	Latitude by	N. 8	0.05. "
	Longitude by	E. 2/3	0.42. "

Current during the time, knots .3 4/ tenths per hour, setting to the West

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 8h 10m " E. by S. 0 ° 4/ "

Water expended during the preceding 24 hours, 2/20 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1930 "

Coal consumed during the preceding 24 hours, 2/ tons 1250 lbs.

Coal remaining on hand at Noon, 61 " 1105 "

P. M.													
1	2	9	61.9	E. by S.	N. E. by N.	2	2	29.97	83	82	79	83	b. c.	cum cir	8	S.
2	4/	6	69.5	"		2	2	29.94	83	82	79	83	"	"	8	"
3		5	74.0	"	N. N. E.	2	2	29.93	83	82	79	83	"	"	8	"
4	5	8	76.8	"		2	2	29.93	83	82	79	83	"	"	8	"
5	4	4	84.2	"	N. E. by E.	2		29.94	82	82	79	83	"	"	8	"
6	6	8	94.0	Sounding	"	2		29.95	82	82	79	80	"	"	8	"
7	2	6	96.4	E. by S.	N. E.	2		29.98	82	82	79	82	"	cum	7	"
8	4	2	3.4	"	"	2		30.00	82	82	79	82	"	"	8	"
9	4	0	10.4	"	"	2		30.01	82	82	79	82	"	"	8	"
10	6	8	17.6	"	"	2		30.01	82	82	79	82	"	"	8	"
11	6	5	24.0	"	"	2		30.00	82	82	79	82	"	"	9	"
Mid.		8	24.8	Sounding	"	2		29.99	82	82	79	82	"	"	9	"

under the command of Commander T. F. Jewell, U. S. Navy,

Monday November 29th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Until 4 A. M.

Clear, pleasant weather. Light breze from E.N.E. & N.E by E. At 12.2 stopped to sound. At 1.25 went ahead, on course E by S & at 4 set fore and aft sail. Got cast of deep sea lead No. 46 in 159 fms, clay bottom. Expended one (1) sinker. Steam 50. Revolutions 60.

B. F. Waring
Lieut U. S. N.

From 4 to 8 A. M.

Partly clear cumulus cirro cumulus clouds. Hazy first hour. Light breze from N.E by N. Smooth sea. At 6.00 stopped. At 6.12 commenced sounding finished at 6.47 & went ahead on course. Cast No 47, 1229 fms, bottom grey sand & mud. Expended one (1) sinker. Put over patent log reading 25.6. At end of watch, on course E by S, under fore and aft sail and steam. Revolutions 60. Steam 50.

C. A. F. Jewett
Ensign U. S. N.

From 8. A. M. to Meridian.

Clear & warm. Gentle breze from N.E by E. At 8.10 sighted Nunivak Light ahead. At 8.20 sighted light from dock 1/4 point on starboard bow. At 8.33 changed course E. & E. 1/4 E. At 9.00 to E. & E. 1/4 E. At 9.25 took sounding No 48 1130 fms, grey sand & mud. Expended one (1) sinker. At 9.55 Starlet ahead, on course S. E by E. At 11.50 slowed down to one bell At meridian; light bore N (pc). Stopped & brought ship head to wind for sounding. At 9.00 quarters. 1st Div. Rifles. 2d Great Guns, 3d Div Signals. Boat div. Cabins. Overhauled & filled magazine & shell rooms flood cocks.

E. D. Galloway
Lieut U. S. N.

From Meridian to 4 P. M.

Clear, warm & pleasant. Light breze from N. E by E to N.N.E. Sea smooth. Took cast No 49 in 105 fms, bottom grey sand & mud, ahead at 12.34. At 2.36 having run 15 knots stopped & took cast No 50 in 1202 fms, bottom grey sand & mud going ahead again at 3.15. Course E by S. Under steam, f & a. sail & foresail, at 4.00. Exercised Apprentices in signals & Marine Guard at Manual of Co Pdr. B. L. R. At 3 the exchanged colors with an English Steamer bound Co. Expended two (2) sinkers.

L. at Log
Lieut U. S. N.

From 4 to 6 P. M.

Clear, pleasant weather. Light breezes from N. E by E. Steering, a course E by S, under steam, foresail & f & a. sail. At 6.45 took in all sail & brought ship to wind to take cast deep-sea lead. Steam 49. Revolutions 38.

B. F. Waring
Lieut U. S. N.

From 6 to 8 P. M.

Generally clear, bright & pleasant. Bright moonlight latter part. Light breze from N.E. Smooth sea with long N.E. swell. At 6.31 finished sounding set head sails & went ahead on course. Cast No 51, 1241 fms, bottom mud & grey sand. Expended one (1) sinker. Sighted a steamers light in lee beam at 7.00. At end of watch on course E by S, under f & a sail & steam. Starboard quarter pennant was found gone; how lost, unknown.

C. A. F. Jewett
Ensign U. S. N.

From 8. P.M. to Midnight.

Clear & pleasant. Gentle breze from N.E. Sea smooth. At 9.00 set foresail. At 10.00 took in foresail. At 10.30 stopped engines, hauled down Mainsail preparatory to sounding at 11 P.M. Parties ahead on course E by S. Under steam & f & a sails. Got cast No 52, 1466 fms, Clay & sand. Expended one (1) sinker.

Examined and found to be correct.

E. D. Galloway
Lieut U. S. N.

A. W. Grant
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

at Sea making passage to Colombo

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	7	5	32.5	E. by S.	N. E.	2	1		29.96	82	81	78	82	b.c.	str.	9	S
2	7	3	39.6	"	"	2	1		29.94	82	81	78	81	"	"	8	"
3	7	2	46.9	"	"	2	1		29.92	82	81	78	81	"	"	7	"
4	6	8	53.5	"	"	2	1		29.92	82	81	78	81	"	"	7	"
5	6	6	60.1	"	"	2			29.93	81	82	78	82	"	cir.	7	"
6	6	8	66.9	"	"	2			29.94	81	81	78	82	"	"	6	"
7	7	7	74.3	"	N. N. E.	2			29.95	81	81	78	82	"	cir. cum.	7	"
8	1	2	75.5	Sounding E. by S.	N. E. by N.	2			29.97	81	81	78	82	"	nim.	6	"
9	7	0	82.5	"	"	2-3			30.00	83	82	78	82	"	cir-cum	6	"
Dy 11.50 N 7°.43' 10	7	5	90	"	"	2-3			30.00	83	82	78	82	"	"	6	"
E 7.5° 11	6	0	96.1	"	N. E.	3			30.0	82	83	78	82	"	"	7	"
Noon.	6	2	102.9	"	"	3			30.0	82	83	78	83	"	"	6	"

Course and distance made good since preceding noon by observations, E. by S. 3/4 S. 13 7/8 knots. tenths.

Position at Noon:	Latitude by D. R.	N	7 26. "
	Longitude by D. R.	E	7 5 .23. "
Dy 11.50	Latitude by observations of ⊙	N	7 .40. "
	Longitude by chronometer from Forenoon Observations of ⊙	E	7 5 .10. "
Position at 8 a. m.	Latitude by D.R.	N	7 .46 "
	Longitude by Chrd Do Do Do	E	7 4 .42 "
Position at 8 P. M.	Latitude by D.R.	N	7 .31. "
	Longitude by Chrd P.M. Do Do	E	7 6 .06. "

Current during the time, knots .58 tenths per hour, setting to the W. by W.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 1 1/2 0 gallons.

Water ——— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1 2 0 0 "

Coal consumed during the preceding 24 hours, 7 tons 2 2 0 0 lbs.

Coal remaining on hand at Noon, 5 3 " 1 1 4 5 "

P. M.										
1	6	7	9.1	E. by S.	E. N. E.	2		29.95	86	85 7/8 83	b.c.	cm-cum	3	S
2	6	8	16.1	"	"	2		29.93	86	85 7/8 83	"	"	4	"
3	6	9	23.1	"	N. E. by E.	2		29.91	82	83 7/8 84	"	"	5	"
4	3	3	26.4	Sounding	N. E.	2		29.91	80	84 84	"	"	5	"
5	6	9	32.8	E. by S.	N. N. E.	3	1	29.92	84	82 7/8 83	"	cum-str	1	"
6	7	7	40.2	E. by S.	[illegible]	3	3	29.94	83	82 7/8 82	"	"	1	"
7	6	8	46.8	"	N. E.	2		29.96	83	82 7/8 82	b.cl.	cum	1	"
8	6	7	53.2	"	E. N. E.	2		29.99	83	82 7/8 82	o.cl.	"	0	"
9	8	7	56.6	Sounding	"	1-2		29.99	83	82 7/8 82	o.c.	nim	2	S
10	5	9	62.5	E. by S.	East	2		29.99	83	83 7/8 82	b.c.	"	4	"
11	6	8	69.1	"	"	1		29.98	83	83 7/8 82	" d	"	4	"
Mid.	7	2	76.0	"	"	1		29.97	83	82 7/8 80	"	"	2	"

under the command of Commander P. F. Harrell, U. S. Navy,

Tuesday November 20th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and lastic H. A. M.

Clear and pleasant. Light breez from N. E. Smooth sea. Steam and fore and aft sail. Course E. by S.

N. H. Geaving
Lieut U. S. N.

From H. to 8 A. M.

Clear pleasant weather. Light breeze from N. E. & N. E. At 7.05 stopped to take cast No 3 in 15 2/4 fms bottom mud. Expended one sinker. Went ahead again at 7.55 on course E. by S. and set fore and aft sail. Sighted two steamers standing to E. Steam 4. Rev 38.

B. F. Waring
Lieut U. S. N.

From 8. A. M. to Meridian.

Generally clear bright and warm. Cir-cum clouds. Light to, gentle breez from E. by S. and N. E. Smooth sea with long swell from N. E. At 9.30 went to quarters, after which, drills as follows: 1st 2d and 3d Divisions small arms Gun Dir. Setting up, Powd Div. Stations. Engrs Div. Sailing. Marines Infantry. Set clock ahead ten minutes. Wm Thompson C. M. was discharged by order of Comdg Officer for carelessness and unreliability. Overhauling sounding wire. At end of watch on course E. by S. under fore and aft sail and Steam. An English Steamer passed to N. during watch. Exchanged colors with her. Steam 4. Rev 38.

Rated Jas Harper Sea to Ship Gr No 3 and J. McWilliams, Sea to Gr No.

A. F. Teaffe
Ensign U. S. N.

From Meridian to 4 P. M.

Fair and warm. Calm and light airs from N. E by E. At 1.15 exercised Company and Artillery Crews. At 2.30 set jibs and F. t. Staysail. At 3.20 Cleared for Sounding. At 3.30 stopped engines hauled down head sails and brought ship head to wind. Patent log read 26 ft. Broken sea, gentle swell from East. Started fires in No 6 and 8 Boilers at 4.02 to for dipping.

E. D. Galloway
Lieut U. S. N.

From 4. to 8. P. M.

Cloudy and warm. Gentle breze from N. N. E. and North. Broken sea from a swell from East. Took cast No 4 in 1002 fms bottom mud, expending one (1) sinker. Went ahead, course E. by S. at 4.07 set sail to topsails. At 5.00 changed course to E. 3/4 S. At 5.00 had quarters for muster. Sighted two steamers. At 6.00 cleared down topsails, wind falling light.

H. C. Gearing
Lieut U. S. N.

From 6. to 8. P. M.

Cloudy weather with light drizzling rain. Light breezes from N. E. & E. & N. E. Furled topsails, took in and furled foresail. At 7.40 to took in fore and aft sail. At end of watch under steam, alone, in course E. 3/4 S. Steam 48. Revolutions 60.

B. F. Waring
Lieut U. S. N.

From 8. P. M. to Midnight.

Generally cloudy. Cum-mulo cirrus clouds. Moon shining occasionally. Time 10.40. Light airs to breezes from East. Smooth sea with long Ely swell. At 8.30 commenced sounding. finished at 9.13 when went ahead on course E. by S. Set patent Log reading 2 1/2. Cast No 5. 859 fms, bottom mud. Expended One (1) sinker. At end of watch on course E. by S. Under steam. Steam 46. Rev 38.

A. F. Teaffe
Ensign U. S. N.

Examined and found to be correct.

S. W. Wadhams Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to Colombo

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a								
1	7	2	89.2	E by S	SW.	1			29.94	82	82	78	81	b.c.	cum nimb	3	S.
2	8	3	96.5	Sounding	"	1			29.93	82	82	78	81	"	"	1	"
3	6	5	93.0	E by S.	East	1			29.92	82	81	78	81	o.c.	"	0	"
4	6	9	99.9	"	N. E.	2			29.92	81	81	78	81	b.c.p.	"	1	"
5	6	5	6.4	"	N. E by N.	2	2		29.92	81	81	78	81	b.c.	cir	3	"
6	6	0	12.4	"	"	3	2		29.92	81	80	78	81	o.c.	"	0	"
7	7	1	19.8	Sounding	"	3	2		29.94	81	80	78	81	"	"	0	"
8	5	5	25.0	E by S.	"	3	2		29.97	81	81	78	81	"	"	0	"
9	6	0	31.0		N. E.	4	4	1/4	29.98	81	81	78	81	b.c.p.	"	1	N.
10	6	3	37.3	E. S. E 1/2 E.	"	4-5	5	1/2	29.99	80	79	78	81	"	"	1	"
11	6	1	43.4	"	N. E by E.	5	5	1/2	29.94	80	80	78	81	o.c.p.	"	0	"
Noon.	5	1	48.5	"	"	5	4	1/2	29.95	80	79	78	82	"	"	0	"

Course and distance made good since preceding noon by observations, East 109 knots tenths.

Position at Noon:
- Latitude by D. R. N 7 ° 08. "
- Longitude by D. R. E 77 ° 31. "
- Latitude by observations of ⊙ N 7 ° 35. "
- Longitude by chronometer from Forenoon Observations of ⊙ E 76 ° 58. "

Dy. 115.0

Position at 8 a. m.
- Latitude by DR N 7 ° 36. "
- Longitude by Chro 00 00 00 E 76 ° 43. "

Position at 8 P. M.
- Latitude by DR N 7 ° 16. "
- Longitude by Chro P.M. Dr Dy. E 77 ° 50. "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 420 gallons.

Water Distilled during the preceding 24 hours, 940 "

Water remaining on hand fit for use at Noon, 1750 "

Coal consumed during the preceding 24 hours, 11 tons 1125 lbs.

Coal remaining on hand at Noon, 41 " 2210 "

P. M.												
1	6	2	51.4	E by S.	N E by N.	4	3/4	3/4	29.93	80	79	78	80	b.c.d.	cum nimb	3	N.
2	6	8	58.5	"	"	4		3/4	29.90	80	79	78	80	"	"	3	"
3	6	6	65.1	"	"	4		3/4	29.88	80	80	78	80	"	cir cum	5	"
4	6	8	72.2	"	"	4		3/4	29.84	80	80	78	80	"	" nimb	8	"
5	5	5	76.5	E 1/2 S.	N. N. E.	5		3/4	29.84	80	80	78	81	b.c.	"	2	"
6	6	9	86.4	"	"	5		3/4	29.89	80	80	78	81	"	"	2	"
7	7	4	93.8	"	"	5	4		29.93	80	80	78	81	b.c.m.	"	4	"
8	6	6	0.4	"	N. E. by N.	4	4		29.93	79	79	78	80	b.c.r.	"	0	"
9	6	6	7.0	"	"	4	4		29.96	80	80	78	80	o.c.p.l.	cum nimb	0	"
10	6	4	13.4	"	"	4			29.96	80	80	78	80	"	"	0	"
11	7	2	20.6	"	N. E by E.	4			29.97	80	80	78	80	o.c.	"	0	"
Mid.	5	2	25.8	"	"	4			29.98	80	80	78	80	o.c.l.	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,

Wednesday December 1st, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences, and Until 4 A.M.

Overcast for the most part. Calm & light airs from S.W. until 2, then light breeze from East & N.E. Sea broken. Gentle steam from East. Lightning along horizon to S.W. first hour. At 1:30 stopped for sounding. Got cast No 56, 82 fms, mud & sand. Expended one sinker. At 2:00 started ahead on course E. by S. At 3:30 set fore & aft sails except mizzen, topmast staysail. Distilling.

Ens. G. Galloway U.S.N.

From 4 to 8 A.M.

Overcast. Gentle breeze from N.E. by N. Smooth sea. At daylight sighted high land bearing about North (Cape Canaveral). At 6:00 having run 30 knots since last sounding stopped for cast of 63 fms. bottom sand. Expended one sinker. Went ahead at 7:00. Sounded with Coating Machine at 7:30 & 8:00 in 56 & 53 fms. bottom grey sand with broken shell. Course E. by S. Under steam and fore & aft sail. Patent log at 7:30, 19.4, at 8:00, 22. Distilling.

H. L. Gearing
Lieut U.S.N.

From 8 A.M. to Meridian.

Overcast cloudy weather with intermittent drizzling rain. Moderate to stiff breeze from N.E. & N.E. by E. Moderate sea. At 9:00 changed course to E.S.E. & E. At 9:30 inspected, at quarters & exercised 1st, 2d & 3d Navigators & Powder division, at school of the Soldier. At 8:30 got cast of Coating lead in 50 fms, bottom sand & broken shell, and again at 12:00 in 52 fms, same bottom. At 12:00 changed to E. by S. Passed a Russian Steamer & a barque standing to Westward. At end of watch ship under steam, jib, fore topmast staysail, main trysail & spanker. Distilling. Revolutions 47. Steam 90.

Ens. W. Illing
Lieut U.S.N.

From Meridian to 4 P.M.

Generally cloudy with cirro-cumulus & cumulus clouds. Occasional light drizzle. Moderate breeze from N.E. by N. At 1 set foresail. Moderate N.E. sea. Ship rolling & pitching easily. Overhauled wire of the Thompsons Sounding Machine, on poop. At end of watch, on course E. by S, under foresail, fore & aft sail & steam. Steam 47. Revolutions 97.3. Sounded at 2, got bottom 61 fms. green sand.

Ens. J. Jewell
Ensign U.S.N.

From 4 to 6 P.M.

Fair & warm. Fresh breeze from N.N.E. Moderate sea. At 4:30 changed course to E. by S. At 5:00 mustered at quarters. Overhauled Thomsen Sounding Machine & refilled tank.

G. Galloway
Lieut U.S.N.

From 6 to 8 P.M.

Cloudy. Hazy around horizon. Heavy rain last half hour. Stiff to moderate breeze from N.N.E. to N.E. Steam, fore & aft sail except flying jib & gaff topsail & foresail. Course E. by S. At 7:00 slowed engines & got cast with Coating machine in 160 fms, bottom grey mud. At 7:50 hauled up foresail. Distilling.

H. L. Gearing.
Lieut U.S.N.

From 8 P.M. to Midnight.

Overcast & cloudy, passing showers first two hours. Vivid lightning around horizon. Moderate breeze from N.E. by E. Moderate sea. Ship rolling easily. Steaming course E. by S, fore & aft sail set. Steam 48. Revolutions 97.3.

B. T. Helfrich
Lieut U.S.N.

Examined and found to be correct.

A. W. Grant
Lieut
Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to Callao

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a						cio		
1	6	4	32.2	E. ½ S.	N. E.	4			29.4	80	80	4/4/4/9		b.cl.	cumb	1	N.
2	6	2	38.1	"	"	4			29.9	80	80	4/4/4/9		"	"	3	"
3	6	8	44.2	"	"	4			29.8	98	0	80	4/4/4/9	"	"	3	"
4	1	2	45.4	Sounding		3-4			29.8	98	1	80	4/4/4/9	"	"	2	"
5	1	3	48.4	East	E. N. E.	4			29.9	18	0	80	4/4/81	"	"	3	"
6	5	5	54.2	"	"	3			29.9	28	0	80	4/4/81	b.c.	"	2	"
7	5	4	59.9	"	"	3			29.9	4	8	0	80	4/4/81	"	3	"
8	5	4	66.6	"	"	2			29.9	4	8	0	80	4/4/81	"	2	"
9	2	4	68.4	"	E. by N.	2	2-3		29.9	4	8	2	81	4/4/81	"	1	"
10	4	0	80.4	"	E. N. E.	2	2-3		29.9	6	8	2	82	4/5/82	"	1	"
11	5	4	86.6	"	N. E. by N.	2	3		29.9	4	8	2	81	4/8/82	"	"	"
Noon.	6	4	93.9	"	"	3	3		29.9	5	8	2	81	4/4/82	"	"	"

Course and distance made good since preceding noon by observations, E. by S. 14.3 knots. tenths.

Position at Noon: Latitude by D. R. N 4.14. "
Longitude by D. R. E 49.3. "
Latitude by observations of ⊙ N 4.09. "
Longitude by chronometer from Forenoon Observations of ⊙ E 49.18. "

Dy 1150

Position at 8 a. m. Latitude by D.R. N 4.05. "
Longitude by Chro do do do E 48.54. "

Position at 8 P. M. Latitude by D R N ° ' "
Longitude by Chro P M do do E ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° "

Water expended during the preceding 24 hours, 400 gallons.

Water Distilled during the preceding 24 hours, 450 "

Water remaining on hand fit for use at Noon, 2100 "

Coal consumed during the preceding 24 hours, 11 tons 25 lbs.

Coal remaining on hand at Noon, 30 " 2185 "

P. M.													
1	6	3	101.3	E by S	N. E. by N.	3	29.9	18	1	4/4/82	b.c.	cir cumu str	6
2	4	0	105.3	"	North	2	29.8	98	1	82	4/4/82	"	cumb	6	"
3	3	4	109.4	E by S		2	29.8	4	8	1	4/682	"	"	4	"
4	8	9	22.8	"	N. W.	2	29.8	4	8	2	83	4/682	"	"	6	"
5	6	4	-	Hove to & aft	East	1	29.9	0	8	2	82	4/9	o.c.	cumu nimb	2	"
6				"	"	1	29.9	1	8	2	82	4/9	b.c.	"	3	"
7				"	"	1	29.9	2	8	0	8	4/8	"	"	2	"
8				"	"	1	29.9	8	8	0	8	4/8	"	"	0	"
9				"	"	1	29.9	9	4/9	4/9	4/8		o.c.	"	0	"
10				"	"	1	30.0	0	4/9	4/9	4/9	4/	o.c.	"	0	"
11				"	"	1	29.9	9	4/9	4/9	4/9	4/	b.c.	"	2	"
Mid.				"	"	1	29.9	8	4/9	4/9	4/9	4/	"	"	2	"

under the command of Commander T. F. Jewell, U. S. Navy,

Tuesday December 2nd, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences with Lat. 4 A.M.

Cloudy. Gentle to moderate breze from N.E. Under steam and fore and aft sail except flying jib. At 8.12 stopped to sound. Patent log reading 45.4.

A.T. Dennison
Ensign U.S.N.

From 4 to 8 A.M.

Cloudy and warm. Moderate breze from N.E. Got cast No 5 8 40 1 fms. Bottom mud. At 4.15 stood on course East. Under steam and fore and aft sail. At 4.20 stopped distilling, and connected boilers 6 and 8 with engines. At 5.00 wind hauling ahead and decreasing in force. Took in fore and aft sails. Moderate broken sea. Lightning along horizon to S.E. first hour.

D.G. Galloway
Asst. U.S.N.

From 8 A.M. to Meridian

Cloudy, at beginning of watch, clearing off 3d hour. Sea smooth with a swell from S.E. and the fresh trade meeting. Steam, under six boilers, at 9.9 quarters for inspection. At 10.30 set fore and aft sail. At 8.00 sighted the peak of Mt. Adam bearing E.½S, which was soon afterwards shut in by clouds and not again visible during watch. Course East. Changed course to E. by S, at 12.00.

H. Hemming
Asst. U.S.N.

From Meridian to 4 P.M.

Cloud weather. Gentle breze from N.E. by E. Light breezes from North and N.W. At 1.50 changed course to East. At 11.25 stopped ship and got cast No 59 in 685 fms bottom, mud and sand. At 3 changed course to E.½S, at 2.30 made Isle of Colombo Ceylon. At end of watch called Brig Ship to Anchor, Breakwater Light E. by S, distant 1 mile. Draft fwd 13', amid 14', aft 15'.

B.T. Washington
Asst. U.S.N.

From 4 to 8 P.M.

Generally cloudy and rainy. Light winds from East. At 4.05 Pilot came on board. At 4.10 let go starboard anchor inside breakwater of Colombo, at berth No 9. Moored port chain fast to buoy and put two hawsers to a buoy astern. Hauled fires in all but two boilers and Stables, distilled.

C.S.F. Leonard
Ensign U.S.N.

From 8 P.M. to Midnight

Generally cloudy, raining 1st hour. Light breez from East. Moored head and astern. No tidal current.

A.C. Longstaff
Ensign U.S.N.

Examined and found to be correct.

F.V. Washington
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Columbo

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
				Moored Head and Stern													
A. M.				Ships Head					a								
1				N. E.	N. E.	1			29.94	94	94	94		o.c.	cumb	0	g
2				"	"	1			29.93	94	94	94		"	"	4	"
3				"	"	1			29.90	94	94	94		b.c	cumu	7	"
4				"	North	1			29.90	94	94	94		"	"	8	"
5				"	N. E.	1			29.92	78	76	75		"	"	6	"
6				"	N. N. E.	1			29.92	78	76	75		"	cir cumu	5	"
7				"	"	1			29.96	78	77	75		"	"	5	"
8				"	"	1			29.99	78	77	75		"	"	7	"
9				"	"	2			30.00	79	78	76		"	"	7	"
10				"	"	1			30.00	80	79	79		"	"	4	"
11				"	North	2			29.98	81	79	79		"	"	5	"
Noon.				North	N. N. W.	2			29.96	82	81	79		"	"	3	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.:
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.:
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 4/20 gallons.

Water Distilled during the preceding 24 hours, 4/20 "

Water remaining on hand fit for use at Noon, 2500 "

Coal consumed during the preceding 24 hours, 3 tons 580 lbs.

Coal remaining on hand at Noon, 132 " 485 "

P. M.							
1	North	W. N. W.	2	29.92	83	82	74
2	"	"	2	29.91	83	82	74
3	N. by E.	East	2	29.89	83	82	78
4	"	East	2-4	29.90	81	80	74
5	"		2	29.91	81	80	78
6	"	N. N. E.	2	29.93	80	80	74
7	"	"	2	29.94	80	80	74
8	"	"	2	29.94	80	80	78
9	"	"	2	29.94	84	84	76
10	"	"	2	29.94	84	84	76
11	"	"	1	29.95	84	84	76
Mid.	N. N. E.	"	1	29.92	84	74	75

under the command of Commander T. T. Jewell, U. S. Navy,
Friday December 3d, 188 6.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From Meridian and until 4 A. M.
Overcast first part. clear latter part. Light breze from N. E. Distilling.

C. S. Galloway
Lieut. U. S. N.

From 4 to 8 A. M.
Clear and pleasant. Light airs from West to N. E. at 6 30 coal lighters came alongside. Began coaling at 6 50. Received on board end of watch 43 tons.

C. S. Galloway
Ensign U. S. N.

From 8 A. M. to Meridian
Partly clear, bright and warm. Light airs to breze from N. N. E. and W. N. W. Finished coaling at 10 25 and coal lighters left the ship. Received during watch 61½ tons making in all 104½ tons. Cleaning ship. P.M. U.S.S. "Clyde" left the harbor.

H. H. Lamar Jr.
Ensign U. S. N.

From Meridian to 4 P. M.
Clear and warm first part. Light squall with heavy rain from East last hour. at 1 15 loosed sails to a bowline. at 2 30 Stormed at 3 furled sails. Engaged cleaning ship after coaling. at 1 40 Boarding Officer left the ship to pay official visits. at 2 30 Boarding Officer returned on board.

C. S. Galloway
Lieut. U. S. N.

From 4 to 8 P. M.
Partly clear, bright, moonlight, latter part, drizzling first part. Light breze from East and N. N. E. at 4 15 hauled fires in boilers, 6 and 8. An English Steamer left port. Lightning to S. and W. latter part.

H. H. Lamar Jr.
Ensign U. S. N.

From 8 P. M. to Midnight
Fair and calm. Light breze from N. N. E. Moonlight.

C. S. Galloway
Lieut. U. S. N.

Examined and found to be correct.

S. W. Magruder
Lieut. U. S. N. Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Colombo.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.				Ships Head					a						cumu str		
1				N. by E.	N. by E.	1			29.93	8	7	7	5	b cu	nimb	4	S.
2				N. N. E.	"	1			29.91	7	8	7	5	"	"	4	"
3				"	"	1			29.90	7	7	6	5	"	cumu nimb	3	"
4				"	"	1			29.90	7	7	6	4	"	"	4	"
5				North	N. E.	1-2			29.90	7	9	6	5	"	cumu	5	"
6				"	"	1-2			29.93	8	8	6	4	b c	nimb	3	"
7				"	"	1-2			29.92	8	9	6	4	"	"	2	"
8				"	"	1			29.96	7	6	5	4	"	cir-cumu	5	"
9				"	"	1			29.98	7	8	8	6	"	"	6	"
10				"	"	1			29.99	8	9	9	9	"	"	6	"
11				"	N. W.	1			29.98	8	8	8	7	"	"	6	"
Noon.				"	S. W.	1			29.96	8	8	8	7	"	"	6	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.: Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M.: Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 420 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2450 "

Coal consumed during the preceding 24 hours, tons 860 lbs.

Coal remaining on hand at Noon, 131 " 1865 "

P. M.										
1	North	S. W.	2	29.93	8	8	7	8	cir cumu	4 S.
2	N. by W.	N. W.	2	29.91	8	8	7	8	" cumu	1 "
3	N. by E.		1	29.89	8	8	7	9	o c.	" 0 "
4	N. N. E.	E. by S.	2	29.90	8	8	7	8	"	" 0 "
5	N. by E.	"	2	29.90	7	9	7	9	o cl.	" 0 "
6	N. N. E.	"	2	29.92	7	9	7	9	b cu	cir 2 "
7	N. by E.	"	2	29.94	7	9	7	9	"	" 2 "
8	N. N. E.	"	1	29.96	7	9	7	9	"	" 3 "
9	"	N. E. by E.	1	29.96	7	9	7	9	b c	cir cumu 3 "
10	N. by E.	"	1	29.98	7	9	7	9	"	" 2 "
11	"	"	1	29.98	7	9	8	9	"	" 2 "
Mid.	"	Calm	0	29.96	7	9	8	8	"	" 4 "

under the command of Commander T. F. Jewell, U. S. Navy,

Saturday December 4th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M.
Cloudy, hazy around horizon. Light airs from N. by E.

H. Gearing
Lieut. U. S. N.

From 4 to 8 A. M.
Partly clear, windy first-hour. Cum-nimb and cir. cum clouds. Light airs to breezes from N. E. Cleaned bilges. Received in Pay Dept. for issue to crew 145 lbs sides of pork and vegetables and 116 lbs bread. Loosed sails to a bowline, at 8.

A. S. Parmenter
Ensign U. S. N.

From 8 A. M. to Meridian
Fair and warm. Light airs from N. E. & N. W. at 8 a.m. loosed sails to a bowline. At 9 a.m. mustered at quarters.

C. D. Galloway
Lieut U. S. N.

From Meridian to 4 P. M.
Cloudy first part, raining last two hours. Light breeze from S. W., N. W. & E. by S. Lieut, a liberty party on shore. Furled sails at 1 p.m.

H. Gearing
Lieut U. S. N.

From 4 to 8 P. M.
Cloudy and damp. Light airs from E. by S. Received stores in Engineers Department 400 gallons Castor and 100 gallons Cocoanut oil.

C. D. Galloway
Lieut U. S. N.

From 8 P. M. to Midnight
Cloudy and Rainy. Light airs from N. E. by E. & calm last hour.

H. Gearing
Lieut U. S. N.

Examined and found to be correct.

A. V. Wadhams
Lieut Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Colombo

Hour.	Knots	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
				Moored head & stern Ships Head.													
A. M.																	
1				N. N. E.	N. by E.	2			29.94	74	84	84	76	b.c	cir cumu	2	S.
2				"	"	2			29.91	74	84	84	75	"	"	2	"
3				N. by E.	"	2			29.89	74	84	84	76	"	"	5	"
4				"	"	2			29.90	74	84	84	75	"	"	5	"
5				N. N. E.	"	2			29.90	74	84	84	75	"	"	5	"
6				"	E. N. E.	2			29.91	74	84	84	75	"	Nr	4	"
7				"	"	2			29.93	74	84	84	75	"	"	4	"
8				"	"	2			29.96	74	84	84	75	"	"	4	"
9				"	W. by S	2			29.97	74	79	78	76	"	"	3	"
10				"	West	2			29.98	0	79.	77		"	cir cumu	3	"
11				North	N. E.	1			29.98	18	1	78		"	"	4	"
Noon.				"	"	1			29.93	81	82	79		"	"	2	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ′ ″

Longitude by D. R. ° ′ ″

Latitude by observations of ⊙ ° ′ ″

Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m. Latitude by ° ′ ″

Longitude by ° ′ ″

Position at 8 P. M. Latitude by ° ′ ″

Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ″

Water expended during the preceding 24 hours, 4 ton gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 100 ton "

Coal consumed during the preceding 24 hours, tons 4 ton lbs.

Coal remaining on hand at Noon, 131 " 1465 "

P. M.									
1		N. N. E.	N. E.	1-3	29.90	84	83	79	b.c cir cumu 4 S.
2		"	"	2-3	29.88	83	82	78	" " 3 "
3		"	"	2-3	29.87	83	82	78	" " 3 "
4		"	"	2-3	29.87	83	82	78	b.c " 2 "
5		"	"	2	29.91	81	80	78	o.c. nimb 0 "
6		"	"	2	29.92	80	79	74	" " 0 "
7		"	"	2	29.93	80	79	76	" " 0 "
8		"	"	2	29.93	80	78	76	" " 0 "
9		"	"	2-4	29.93	79	78	76	" " 0 "
10		"	"	2-4	29.92	79	78	75	" " 0 "
11		"	1	3-5	29.90	79	77	75	o.c. Nimb " 0 "
Mid.		"	"	3-5	29.87	79	77	75	" " 0 "

under the command of Commander T. F. Jewell, U. S. Navy,
Sunday December 5th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences with Until 4 A.M.
Cloudy cool weather. Light breezes from N.E.

Lieut. W. J. N.

From 4 to 8 A.M.
Fair & rainy. Light airs from E.N.E. at 7:30 loosed sails to a bowline. Received fresh provisions for crew: 145 beef, 145 vegetables, 16lb bread.

E. G. Alleaway Lieut U. J. N.

From 8 A.M. to Meridian.
Cloudy & warm. Light breezes & light airs from E. & N.E. at 9:40 Commander Judge inspected ship & crew at quarters. Sent a small liberty party on shore.

H. le Seaving. Lieut U. J. N.

From Meridian to 4 P.M.
Cloudy weather threatening rain. Light airs to gentle breezes from N.E. J.A. Williams 2 C. Apl. left the dinghy without leave or authority. By order of Judge Officer confined J.A. Williams (2 C. Apl.) in double irons for five days for leaving the dinghy without leave or authority. An English steamer came in and anchored. Received in Navigator Department 40 Gals Kerosene Oil. Loosed sail to a bowline.

B. F. Harding Lieut U. J. N.

From 4 to 8 P.M.
Cloudy. Light rain whole of watch. Light breeze from N.E. The Petty Officer of the Liberty returned from liberty 2 hours & 30 mins. at 5 to 8 P.M. Mustered at quarters.

H. le Seaving. Lieut U. J. N.

From 8 P.M. to Midnight
Cloudy rainy weather with light to stiff breezes in frequent squalls from N.E. & E. U.S. Steamer "Tasmania" came in & made fast to buoy astern of this ship.

B. F. Harding Lieut U. J. N.

Examined and found to be correct.

T. F. Jewell Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Columbo

Hour.	(Stbd)	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
				Mount Head and Light Ships Head													
A. M.									a								
1				N. by E.	N. E.	3-4			29.86	78	74	76		o.o.g.	cumul	0	H
2				"	"	3-4			29.85	78	74	76		"	cir cumu	0	"
3				"	"	3-4			29.85	78	74	74		b.c.	cir cumu	4	"
4				"	N. N. E.	3-4			29.85	74	74	74		"	"	4	"
5				North	N. by E.	3			29.88	74	74	74		"	"	4	"
6				"	"	3			29.90	74	74	74		"	"	2	"
7				N. by E.	"	4			29.91	74	74	74		"	"	3	"
8				"	"	4			29.95	79	74	75		"	cumu	1	"
9				"	"	3			29.93	79	74	76		"	cir cumu	1	"
10				"	"	3			29.94	79	80	76		"	"	2	"
11				"	"	4			29.96	81	80	77		"	"	2	"
Noon.				"	"	4			29.90	81	80	78		"	cir-cumu	2	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ′ ″
Longitude by D. R. ° ′ ″
Latitude by observations of ⊙ ° ′ ″
Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m. Latitude by ° ′ ″
Longitude by ° ′ ″

Position at 8 P. M. Latitude by D. R. N 6° 19′ ″
Longitude by " E 79° 51′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, Hoa gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 60a "

Coal consumed during the preceding 24 hours, 1 tons 115 lbs.

Coal remaining on hand at Noon, 150 " 1350 "

P. M.														
1				N. by E.	N. N. E.	3	29.90	81	82	78	b.c.	cir cumu nimb	1	H
2				"	"	3-5	29.90	80	81	77	o.c.r.g.	cumul	0	"
3				"	"	3-4	29.85	80	80	79	"	"	0	"
4	2	8	26.3	S. by W.	"	3-5	29.87	80	79	78	"	"	0	"
5	8	1	35.2	S. W.	N. by W.	5	29.89	79	79	78	o.c.d.	"	0	"
6	4	1	43.6	South	"	5	29.90	79	79	78	o.c.	cumu	0	"
7	9	2	52.8	S. by E.	"	4	29.92	80	80	79	c.	"	0	"
8	8	2	61.0	"	N. N. E.	4	29.92	80	80	79	b.c.	"	2	"
9	5	2	68.6	S. S. E.	"	4	29.93	80	80	79	o.c.p.l.	"	0	"
10	7	2	76.8	"	"	4	29.93	80	80	79	b.c.l.	cir cumu	4	"
11	2	2	82.9	S. S. E.	N. by E.	4	29.94	80	80	79	b.c.p.l.	nimb	3	"
Mid.	3	2	90.0	S. E. by E.	"	4	29.96	80	80	79	b.c.l.	"	3	"

under the command of Commander T. F. Jewell, U. S. Navy,

Monday December 6th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences Curtis & A. M.

Cloudy, during first three hours of watch, then clear. Winds in moderate puffs from N. E. & N. N. E.

A. T. Fenyes
Ensign U. S. N.

From 4 to 8 A. M.

Cloudy & pleasant. Little to moderate breeze from N. by E. At 5h 0m crossed top gallant yards. Made preparations to receive coal, on deck. Received the following fresh provisions for issue to crew, viz 400 lbs fresh beef, 400 lbs vegetables, 116 lbs fresh bread.

Filed Keeping
Lieut U. S. N.

From 8 A. M. to Meridian

Cloudy with passing showers until 11:00. Little to moderate breeze from N. E. Took deck load coal, receiving in all 20 tons. Discharged from this ship, at his own request, he waiving all claims for transportation to Boston, Curtis Reina, U.S.N.R. Std. At 10:10 started fires in boilers 5, 6, 7 & 8. Made preparations for sea.

Filed Keeping
Lieut U. S. N.

From Meridian to 4 P. M.

Overcast & cloudy, raining most of watch. Heavy rain squalls from N. N. E. at 1:30 & 3. Little to stiff breeze from N. N. E. At 2 P. called all hands, cast adrift from buoys & took up starboard anchor. Steamed out of harbor. At 3:04 took departure, put over patent log reading 235. Bearings: Light House Clock Tower E. ¼ N. (p.c.) distant 2 miles. Set course S. by W. at 3:4 called all hands & made sail, setting topsails, top gallant sails, foresail & jib. Draft of ship fwd 14' 7" amid 15' 7" aft 16' 6"

A. T. Fenyes
Ensign U. S. N.

From 4 to 6 P. M.

Dry cast with fresh breeze from North. At 5h 0m changed course to South, at 6h 0m to S. by E. Square sails to top gallant sails except mainsail & jib. Sea moderate.

E. D. Galloway
Lieut U. S. N.

From 6 to 8 P. M.

Cloudy. Clearing last half hour with moonlight. Moderate breeze from North to N. N. E. Steadied & square sails to top gallant sails & jib. Course S. by E. at 7h 45m stopped engine to overhaul cross head of forward engine, going ahead again at 8h 00m.

H. L. Keeping
Lieut U. S. N.

From 8 P. M. to Midnight

Cloudy weather with passing showers first & third hours. Lightning to S. & E. At 8h 30m banked fires, stopped engine, uncoupled propeller & commenced distilling. Ships course as follows: at 8:10 to S. S. E., at 10:12 to S. E. by S., at 10:35 to S. S. E., at 11:30 to S. E. by E., at 10:35 made Pt de Galle Light House from aloft, at 10:50 it bore E. ¼ N., at 11:25 it bore E. N. E. & at 12:00 it bore E. ¾ E. Got casts of sounding lead as follows: P. L. 76, 32 fms, rock and sand: P. L. 77.5, 31 fms, grey sand: P. L. 78.8, 35 fms, grey sand: P. L. 80. 33 fms grey sand: P. L. 81.0 31 fms, grey sand: P. L. 82.1, 35 fms, grey sand: P. L. 83.4, 35 fms grey sand: P. L. 85.2 38 fms, grey sand: P. L. 86.5, 38 fms, grey sand. At midnight ship under plain sail to Royals, (save F. F. Staysail, Mainsail & Spanker) & Main Trysail. Moderate sea.

B. P. Keeping
Lieut U. S. N.

Examined and found to be correct.

A. W. Grafton
Lieut USN Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to Singapore

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	6	8	96.9	S E by E.	North	4			29.93	79	79	78	81	o cu	cum		H.
2	6	2	33	"	"	4			29.90	79	79	76	81	bc	cumb	1	"
3	6	4	9.7	"	"	4			29.89	79	78	76	81	"	"	1	"
4	6	2	18.5	"	"	4			29.86	79	78	76	81	o. c.	"	0	"
5	5	5	24.0	"	"	4			29.87	78	77	75	81	"	"	0	"
6	4	5	25.5	"	"	4			29.89	78	77	75	81	b. c.	cum	2	"
7		1	0 26.5	Sounding	"	4			29.92	78	78	76	81	"	"	2	"
8	2	8	29.3	East	N. by W.	4			29.93	78	78	76	81	"	"	2	"
9	6	0	33.3	"	N N W.	4			29.92	78	78	76	81	"	cir	0	H.
10	5	4	40.7	"	N W. by N.	4			29.98	79	78	76	81	"	"	0	"
11	5	8	46.5	"	"	4			29.96	79	78	76	81	"	"	0	"
Noon.	4	5	52.0	"	"	5			29.93	79	79	76	81	"	"	0	"

Course and distance made good since preceding noon by observations, S E by S 106 knots tenths.

Position at Noon:
- Latitude by D. R. — N 5 . 3 "
- Longitude by D. R. — E 81 . 01 "
- Latitude by observations of ⊙ — N 5 . 2 "
- Longitude by chronometer from Forenoon Observations of ⊙ — E 80 . 22 "

Position at 8 a. m.
- Latitude by D R — N 5 . 2 "
- Longitude by Chro do do do — E 79 . 54 "

Position at 8 P. M.
- Latitude by D R — N 5 . 2 "
- Longitude by do — E 81 . 28 "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 1 . 0 gallons.

Water Distilled during the preceding 24 hours, 180 "

Water remaining on hand fit for use at Noon, 9000 "

Coal consumed during the preceding 24 hours, 4 tons 350 lbs.

Coal remaining on hand at Noon, 146 " 1000 "

P. M.																
1	4	4	61.7	East	N. W. by W.	4			29.98	80	80	78	80	b. c.	cir cum str	1	H.
2	4	5	69.2	"	"	4-5			29.87	80	80	78	80	o. c.	"	0	"
3	8	2	74.4	"	"	4-5			29.85	80	80	78	80	"	"	0	"
4	9	0	86.4	"	"	5-6			29.83	80	80	78	80	"	"	0	"
5	8	8	95.2	"	"	5-6			29.82	80	81	78	80	"	cum cumb	0	"
6	8	6	4.3	"	N. W. by N.	1-6			29.89	80	81	79	80	"	"	0	"
7	8	2	13.	"	"	6			29.92	80	81	79	81	"	"	0	"
8	4	8	20.8	"	"	5			29.93	80	81	79	81	c	"	0	R.
9	3	8	28.3	E ½ N	N " W.	5			29.96	80	80	79	81	"	"	0	"
10	6	6	34.9	"	"	4			29.96	80	80	79	80	"	"	0	"
11	5	9	40.8	"	W. N. W.	4			29.93	80	80	79	80	"	"	0	"
Mid.	6	5	46.3	"	West	4			29.90	80	79	79	80	"	"	0	"

under the command of Commander T. T. Jewell, U. S. Navy,

Tuesday December 7th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences with Cutie A. M.

Cloudy with threatening appearances. Cumulus clouds. Moderate breze from North. Moderate sea. At 2h 20m Point de Galle Light-house abeam, P. L. 95 f. At end of watch, on course S. E. by E, under plain sail to royals except mainsail & spanker.

A. T. Jeffery
Ensign U. S. N.

From 4 to 8 A. M.

Overcast & pleasant. Moderate breze from N. by W. At 5h 15m took in & furled square sails, & spread fires, stopped distilling, coupled screw & stopped for sounding. At 6h got cast No. 6 in 2 28 fms, mud & bottom. Patent log 26.5. At 6h 30m made all square sails except mainsail. Jibs, main trysail & spanker and stood course East. At 7h 40m banked fires, uncoupled screw & began distilling. Sea smooth. At 8h 00m high land in sight on port bow & beam.

D. Galloway
Lieut U. S. N.

From 8 A. M. to Meridian

Cloudy & pleasant. Moderate breze from N. W. by N. Increasing last hour. Smooth sea with a swell from N. W. Last sight of high land on port beam about 10h 00m. At 10h 50m began distilling into tanks. Sail alone, no change in sail carried. Course East. H. K. Noelkawa, Lds, was rated U. S. Steward by order of Lady Officer.

H. C. Jennings
Lieut U. S. N.

From Meridian to 4 P. M.

Cloudy, pleasant weather. Moderate to fresh breeze from N. W. by W. Aired bedding. On course East, under plain sail to Royals, set mainsail & main trysail.

D. Kaeding
Lieut U. S. N.

From 4 to 6 P. M.

Cloudy but pleasant. Cumulus clouds. Stiff to fresh breeze from N. W. by W. Moderate sea from W. N. W. At 4h 30m took in royals, flying jib and spanker. Got the anchors on the bow. At end of watch on course East, made plain sail to top gallant sails except mainsail and spanker.

A. T. Jeffery
Ensign U. S. N.

From 6 to 8 P. M.

Overcast with fresh breze from N. W. by N. Moderate following sea increasing towards end of watch.

D. Galloway
Lieut U. S. N.

From 8 P. M. to Midnight.

Cloudy with obscured moonlight. Stiff to moderate breze from N. W. to West. A heavy swell from W. meeting a swell from S. making a confused sea. Ship with considerable but easy motion. Course changed to S. ½ E. at 8h 30m, patent log reading 24.6. At 11.20 took in main trysail. Under plain sail to top gallant sails, except mainsail & spanker. Distilling.

H. C. Jennings
Lieut U. S. N.

Examined and found to be correct.

W. W. Mackenzie
Lieut U. S. N. Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to Singapore.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a								
1	8	3	55.6	E.½N.	W.N.W.	4-5			29.88	80	80	79	80	o.c.g.	cum str.	0	R
2	8	1	64.7	"	"	5-7			29.86	81	80	79	80	"	"	0	R
3	9	2	73.9	"	"	5-8			29.83	81	80	79	80	o.c.g.	cum cumb	0	"
4	8	4	82.3	"	"	4-8			29.83	81	80	79	80	"	"	2	"
5	8	8	89.7	"	"	5-7			29.84	80	80	79	80	b.c.g.	cir	2	"
6	8	2	97.7	"	"	4-7			29.85	80	80	79	80		cir cir	2	"
7	7	6	105.5	"	"	5			29.86	80	80	79	80	b.c.	"	4	"
8	7	6	113.2	"	West	5			29.84	80	80	79	80	"	"	4	"
9	8	5	121.7	"	"	4			29.90	82	81	80	80	"	"	3	"
10	8	8	130.5	"	"	4			29.90	82	82	81	80	"	"	3	"
11	6	9	139.4	"	"	4			29.90	82	82	79	80	"	"	4	"
Noon.	8	1	147.5	"	"	4			29.84	83	82	79	80	"	"	4	"

Course and distance made good since preceding noon by observations, E.½S 165 knots. tenths.

Position at Noon: { Latitude by D. R. N 5 . 30 . " ; Longitude by D. R. E 83 . 34 . " ; Latitude by observations of ⊙ N 5 . 17 . " ; Longitude by chronometer from Forenoon Observations of ⊙ E 83 . 04 . " }

Lg. 1157

Position at 8 a. m. { Latitude by N 5 . 15 . " ; Longitude by E 82 . 35 . " }

Position at 8 P. M. { Latitude by N 5 . 15 . " ; Longitude by E 83 . 33 . " }

Current during the time, 1 knots 2 tenths per hour, setting to the S. S W.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 8' 9" " E.½N. E 0 . 34 . "

Water expended during the preceding 24 hours, 430 gallons.

Water Distilled during the preceding 24 hours, 620 "

Water remaining on hand fit for use at Noon, 5400 "

Coal consumed during the preceding 24 hours, 2 tons 1810 lbs.

Coal remaining on hand at Noon, 143 " 1930 "

P. M.														
1	7	8	53.2	E.½N.	West	5-6		29.85	82	82	80	b.c.	cir cum	1 6
2	7	9	61.0	"	"	5-6		29.83	82	81	80	"	"	1 "
3	7	3	68.3	E"S E.	W.by S.	5-6		29.81	82	81	80	"	cum	1 "
4	1	0	68.3	Each		5-6		29.80	81	81	80	"	"	1 "
5	1	0		N.N.W.½W	West	6-7.8		29.81	81	80	79	b.c.g.	cir cum	2 N
6	1	2		N.N.W.½W	"	5-7.8		29.83	81	80	79	"	"	2 "
7				N.W. to N.by.W.	"	3-6		29.86	81	80	79	"	"	4 E
8				N.W. to N.N.W.	"	3-5		29.88	81	80	79	"	"	5 "
9	1	0		N.W.by N.	"	4-6	2	29.92	81	81	79	"	"	5 "
10	1	0		N.W.	W.SW.	4-6	2	29.93	81	80	79	"	"	5 "
11	2	3	68.7 / 70.4	E.by N.	"	4-6		29.93	81	80	79	"	"	5 "
Mid.	2	3	78.0	"	"	4-6		29.93	81	80	79	"	"	

under the command of Commander T. F. Jewell, U. S. Navy,

Wednesday December 8th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Until 4 A. M.

Cloudy, pleasant weather. Moderate breeze to moderate gale in squalls from N. by W. to West. Wind gradually increasing in force & frequency of squalls until 3. After 3:30 apparently moderating, squalls less frequent, lighter & of shorter duration. Heavier squalls lasted about 5 to 8 minutes at a time. Rough following sea first hour, increasing last three hours. At 2 took in top gallant sails & furled them. At 2:50 cleared down foretopsail & at 3:10 double reefed it. Ship rolling & pitching easily but deeply. Extreme roll 23°, extreme pitch 18°. At end of watch ship under whole foresail & main topsail, double-reefed fore topsail & jib, steering a course E. by N. At 12:00 stopped distilling. Fires banked.

D. F. Wasing
Lieut U. S. N.

From 4 to 8 P. M.

Partly clear with cir-cumu & cir-str clouds. Squally first part, warm latter part. Moderate to fresh breeze from W. N. W. shifting to West last hour. Heavy cross sea to which ship rolled deeply at times. At 5:00 hauled down jib to repair a split in it. At 5:00 turned reef out of fore topsail. Placed J. Fabriga, Ldg, under sentry's charge for disobedience of orders to await action of Executive Officer. At end of watch on course E. by N. under square sail to topsails.

Chas. F. Jewell
Ensign U. S. N.

From 8 A. M. to Meridian

Cloudy & cool. Very fresh breeze from West. Moderate to rough sea. Ship rolling deeply but easily, greatest roll 40° to leeward. Gradle of steam cutter carried away. Launch secured with tackles & shores without damage to boat. Jig fished & washed overboard backboard & after grating.

E. Galloway
Lieut U. S. N.

From Meridian to 4 P. M.

Cloudy. Stiff to fresh breeze from West to W. by S. Heavy cross sea from West & Nord giving ship a heavy motion. At 2:00 headed ship E. S. E. At 2:10 spread fires. Put storm trysail battened down, after hatches & at 2:20 called all hands shorten sail. Furled foresail, fore topsail & main topgallant sail. Took two reefs in main topsail. Coupled propeller and went ahead on engines. Rounded to on port tack under double reefed main topsail, main topsail & storm trysail. Stopped engines & banked fires. Ship lying to comfortably under this sail. Distilling. Lost overboard one "H" S. B. Tompkins & coal & trysail Bag. Before rounding to tried pouring cocoanut oil on the sea first through water-closets both sides & again from punctured bags stuffed with oakum hung from cat heads, with an appreciable smoothing effect on the following sea.

N. H. Hopping
Lieut U. S. N.

From 4 to 6 P. M.

Cloudy, pleasant weather. Stiff to fresh breeze in squalls from West. Heavy irregular sea. Lying to under doubled reefed main topsail main trysail & storm trysail. Oil bags at each cathead effect not noticeable. Ship rolling & pitching deeply. Extreme roll 30°. Extreme pitch 22°.

D. F. Wasing
Lieut U. S. N.

From 6 to 8 P. M.

Partly cloudy with cir-cumu clouds, bright moonlight. Smooth sea, fresh breeze from West first hour; gentle to stiff W. S. W. breeze 2d hour. Greatest lee roll 30°, weather 25°, pitch observed 10°. At end of watch under double reefed main topsail, main trysail & storm trysail.

Chas. F. Jewell
Ensign U. S. N.

From 8 P. M. to Midnight

Examined and found to be correct

Clearing. Wind & sea moderating. At 10:20 set fore topmast staysail. Taking main trysail & standing and let ship fall off to course E. by N. Set foresail, fore topsail & shook reefs out of main topsail & set main topgallant sail. Put over patent log reading 68.4. Ship rolling deeply at times by lee, at 10:30 spread fires. At end of watch on course with all steam ahead.

E. Galloway
Lieut U. S. N.

D. F. Wasing Lieut
Navigator.

LOG of the UNITED STATES Steamer "Essex" 2d Rate,

At Sea making passage to Singapore.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a						cuuu		
1	9	2	8[illegible]3	E by N.	S.W. by W.	6			29.92	80	79	80		b.c	cir	5	R.
2	9	1	96.3	"	S.W.	6			29.90	80	79	80		"	"	9	"
3	8	9	5.2	"	"	5			29.89	80	79	80		"	"	4	"
4	[illegible]	8	14.	"	"	5			29.89	80	79	80		"	cuuu	0	"
5	8	8	22.6	"	"	5-4			29.90	81	80	79	80	o.c.	cuuu	0	"
6	8	6	31.2	"	S.W. by S.	5			29.93	80	80	79	80	o.cgs.	"	0	"
7	8	8	39.7	"	"	4-5			29.95	80	80	79	80	b.c.	"	1	"
8	4	3	47.3	"	S.W.	5			29.98	81	80	79	80	"	"	1	"
9	4	6	55.2	"	"	5			29.99	81	79	79	80	"	"	1	"
10	8	6	63.2	"	"	5			29.99	80	78	76	80	o.cs.	"	0	"
11	6	0	69.8	"	"	4			29.99	80	80	79	80	b.cu.	cuuu	2	"
Noon.	8	6	77.1	"	"	4			29.99	81	81	79	80	"	"	2	"

Course and distance made good since preceding noon by observations, E 1/2 S 135 knots. tenths.

Position at Noon:
- Latitude by D. R. — N 5 .31. "
- Longitude by D. R. — E 85 .21. "
- Latitude by observations of ⊙ — N 5 .05. "
- Longitude by chronometer from Forenoon Observations of ⊙ — E 85 .22. "

Position at 8 a. m.
- Latitude by — N 5 .01. "
- Longitude by — E 84 .53. "

Position at 8 P. M.
- Latitude by — N 5 .17. "
- Longitude by — E 86 .06. "

Current during the time, 1 knots tenths per hour, setting to the SS.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 8[illegible] " E by N E 0 .56. "

Water expended during the preceding 24 hours, 400 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2300 "

Coal consumed during the preceding 24 hours, 5 tons 640 lbs.

Coal remaining on hand at Noon, 138 " 1290 "

P. M.										
1	4	9	85.0	E by N.	S.W.	4	29.94	82	81	79	80	b.c.	cir cuuu	3	N
2	4	3	92.5	"	"	4	29.94	82	81	79	80	"	"	3	"
3	4	5	100.	"	"	4	29.94	82	82	79	80	"	"	2	"
4	2	0	109.5	Sounding	S. by S.W.	4	29.94	82	82	79	80	"	"	3	"
5	4			"	"	4	29.92	82	81	79	80	"	"	1	"
6	4	5	110.	E by E. 1/2 E.	"	4	29.94	82	81	79	80	"	"	1	"
7	4	2	8.2	"	"	3	29.97	82	81	79	80	o.c.	"	0	L
8	4	0	26.2	"	"	3	30.00	82	81	79	80	"	"	0	"
9	4	0	32.1	"	"	3	30.03	80	81	79	80	b.cuuu	cuuu	2	"
10	4	0	39.1	"	"	3	30.04	80	81	80	80	"	"	1	"
11	4	0	46.1	"	"	2	30.04	80	81	80	80	"	"	3	"
Mid.	4	0	53.2	"	"	2	30.04	80	81	80	80	cuu	"	0	"

under the command of Commander T. F. Jewett, U. S. Navy,
Thursday December 9th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences 1st Watch M.

Cloudy with moonlight. Fresh breeze from S.W. Rough confused sea. Ship pooling deeply at times. Course E. by N. Steam, foresail, topsails, main top gallant sails and fore topmast staysail.

H. E. Haines
Lieut U. S. N.

From M. to 8 A. M.

Generally pleasant weather. Cloudy. Passing showers with fresh squalls between 4 & 6. Moderate to stiff breezes in squalls from S.W. by S. Rough irregular sea. Ship rolling and pitching deeply. Extreme roll 22° extreme pitch 18°. Under steam, fore & main topsails, foresail and fore topmast staysail. Took in main Trysail at 5:10 to a squall. At daylight discovered that port main chain chest had been swept away during the night. Course E. by N.

H. E. Haines
Lieut U. S. N.

From 8. A. M. to Meridian.

Generally cloudy, overcast with rain 2d hour, hazy latter part. Warm. Sun much clouded. Moderate to stiff S.W. breeze. Rough cross sea. At 10:45 set top gallant sails and took in main trysail. Set clock ahead 9 minutes. Ship knocking about considerably. Greatest lee roll 35°, weather 25°. At end of watch on course E. by N. Under steam. Square sail to top gallant sails except mainsail and fore topmast staysail. Steam 48. Revolutions 36.5.

A. T. Dewitt
Ensign U. S. N.

From Meridian to 4 P. M.

Overcast and warm. Moderate breeze from S.W. Moderate sea with frequent long seas. Ship rolling easily but deeply at times. At 3.05 began shortening sail for squalls. Took in Royals & Square sails. Set main trysail and Spanker and brought ship head to wind and sea.

E. D. Galloway
Lieut U. S. N.

From 4. to 6 P. M.

Cloudy. Moderate wind and sea from S.S.W. Finished sounding No. 61, at 4h 58m in 2210 fms, bottom clay, and went ahead on course E.N.E. ½ E. making sail to top gallant sails except mainsail and Spanker. Expended one sinker.

H. E. Haines
Lieut U. S. N.

From 6. to 8 P. M.

Overcast, pleasant weather. Light breezes from S.S.W. Moderate sea with long swell from W.N.W. Steering a course E.N.E. ½ E. under steam and plain sail to top gallant sails save mainsail and Spanker

H. E. Haines
Lieut U. S. N.

From 8. P. M. to Midnight.

Cloudy and hazy. Rain showing thro' haze. Squalls commencing. Light to light breeze from S.S.W. Moderate irregular sea. Ship rolling occasionally at ends of watch, on course E. by E. ½ E. under steam and plain sail to top gallant sails save mainsail and Spanker. Steam 47. Revolutions 36.

A. T. Dewitt
Ensign U. S. N.

Examined and found to be correct.

A. V. Wadhams, Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to Singapore.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.															cum		
1	6	9	60.1	E.N.E.½E.	South	2			30.018	28	1/4	78	0	o.c.	str	2	R
2	4	0	67.1	"	"	2			30.008	28	1/4	78	0	"	cum	0	"
3	4	4	74.5	"	S. by E.	2			29.98	8	1	8	1/4	78	0	b.c.	cir	5	"
4	6	4	81.2	"	S.E.	2			29.98	8	1	80	1/4	78	0	"	"	6	"
5	4	1	88.3	"	S. by E.	2	0		29.9	8	1	8	1/4	98	0	"	cir str	4	L
6	4	4	95.7	"	S.S.W.	2	0		29.99	8	1	80	1/4	78	0	"	"	4	"
7	4	4	3.4	"	"	3	0		30.02	8	1	8	1/4	78	0	"	"	4	"
8	4	2	10.6	"	"	3	0		30.06	8	2	82	1/4	98	0	"	cir cum	4	"
9	2	9	13.5	"	"	3			30.07	8	2	82	1/4	98	0	"	"	4	"
10				Sounding	S. by W.	3			30.09	8	3	82	1/4	78	0	"	"	5	"
11	3	4	16.9	E.N.E.½E.		3			30.08	8	3	82	1/4	88	0	"	.	6	"
Noon.	3	4	20.6	"	South	3			30.07	8	4	83	1/4	98	0	"	.	6	"

Course and distance made good since preceding noon by observations, E.N.E.½E. 133 knots. tenths.

Position at Noon:
- Latitude by D. R. N. 5 . 37. "
- Longitude by D. R. E. 84 . 44. "
- Latitude by observations of ⊙ N. 5 . 44. "
- Longitude by chronometer from Forenoon Observations of ⊙ E. 84 . 30. "

Dy. 1152

Position at 8 a. m.:
- Latitude by N. 5 . 42. "
- Longitude by E. 84 . 20. "

Position at 8 P. M.:
- Latitude by N. 5 . 44. "
- Longitude by E. 88 . 04. "

Current during the time, knots. 25 tenths per hour, setting to the W.N.W.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 4 o'clk " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 4 o'clk " E.½N. E. 1 . 16, "

Water expended during the preceding 24 hours, 430 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 17,120 "

Coal consumed during the preceding 24 hours, 8 tons 1280 lbs.

Coal remaining on hand at Noon, 130 " 10 "

P. M.											
1	4	0	34.9	E.½N.	S.S.W.	2-3		30.04	8	2	82	4	80	b.c.	cir cum	5	L
2	4	3	29.3	"	"	3		30.00	8	2	82	4	98	"	"	4	"
3	4	4	33.6	"	"	3		30.00	8	2	82	4	98	"	"	2	"
4	4	2	3.9	"	"	3-2		30.00	8	2	82	4	98	b.c.h.	"	5	"
5	4	1	42.0	"		2-3		30.01	8	2	82	4	98	b.c.	"	5	"
6	4	1	46.1	"	S.W.	2		30.02	8	2	81	4	98	b.c.h.	"	5	"
7	4	3	50.4	"	"	2	0	30.05	8	2	81	4	80	b.c.	.	4	"
8	4	5	54.9	"	"	2	0	30.08	8	2	81	4	80	"	"	4	"
9	3	5	58.4	"	"	2		30.1	8	2	81	4	80	"	"	4	"
10	4	9	63.3	"	"	2		30.11	8	2	81	4	80	"	cir	6	"
11	4	3	70.6	"	"	2		30.11	8	2	81	4	80	"	"	7	"
Mid.	4	4	78.0	"	"	2		30.10	8	2	81	4	80	"	"	8	"

under the command of Commander T. F. Jewell, U. S. Navy,

Friday December 10th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences Mid Watch 4 A. M.

Overcast first two hours, clearing last two. Gentle breeze from South Sailing to S.E. Light pain squalls making along horizon to Sd & Wd. Sea smooth with long swell from West. Moonlight. Ship rolling easily, about 10°.

D. L. Galloway
Lieut U S N

From 4 to 8 A. M.

Pleasant weather. Light to gentle breeze from S.S.W. Smooth sea with long swell from W. Steam'd & sail to topsails. at end of watch shortening sail preparatory to sounding.

H le Searing
Lieut U S N

From 8 A. M. to Meridian.

Clear pleasant weather. Gentle breeze from S.S.W. to South. At 8:25 stopped to sound, furled all sail & set spanker & main topsail. Sup came up at 10:19. Brought ship to course E.N.E. & E & made sail to royals, save mainsail & spanker. Exercised at making shortening & furling sail. Times of loosing all sail to ⟶, making Sail 3m 05s. Piped down at 11:20. At 10:40 stopped engines, banked fires & uncoupled propeller. At 11:45 set flying jib, f.t.m. staysail, spanker & gaff topsails, mizzen t.m. staysail & fore storm staysail. At 12 changed course to E. ½ N. Long swell from Westward. At end of watch ship under plain sail to royals (save mainsail), fore topmast staysail, gaff topsail & flying topmast staysail. Got cast of deep sea lead, in 2160 fms, bottom clay & sand. Expended one sinker.

FORE STORM Staysail

H le Searing
Lieut U S N

From Meridian to 4 P. M.

Partly clear with cirro cumulus. Bright & warm. Light to gentle breeze from S.S.W. Smooth sea with long & oily swell. Ship rolling easily. At end of watch in course E. ½ N. under plain sail to royals & Mainsail.

A. T. Long
Ensign U S N

From 4 to 6 P. M.

Fair with light passing showers first hour. Cloudy last hour. Light to gentle breeze from S.W. At 4h 30m took in spanker & gaff topsail & fore topmast staysail. Exchanged colors with a German steamer standing to the S. Sea smooth with occasional swell from West. At 5h 50m mustered at Quarters.

D. L. Galloway
Lieut U S N

From 6 to 8 P. M.

Pleasant weather. Light breeze from S.W. Sea smooth. Plain sail to royals & set main-sail & spanker & mizzen topmast staysail. Course E. ½ N. & distilling.

H le Searing
Lieut U S N

From 8 P. M. to Midnight.

Clear & pleasant. Light breeze from S.W. Long swell from N.W. At 9:02 spread fires & coupled propeller. Stopped distilling. At 9:22 went ahead full speed with engine. At 11:00 took in mizzen topmast staysail. Hauled down flying jib. At 11:40 beat to Signal Quarters & Divisions ready as follows: (at 6m 20s Red at 3m 30s Harmless 9:10). Time of firing first charge: 1 Div 7m 00s, 2 Div (No 1 Gun) 5m 50s, (No 2 Gun) 5m 10s; 3 Div 5m 30s. Ready for second shot: 1 Div 7m 50s 2 Div 8m 20s 3 Div 6m 00s. Beat secure at 11:55. Beat pipe'd at 12:00 at end of watch on course E. ½ N. under steam & plain sail to royals & sch't mainsail, spanker, flying jib & fore topmast staysail. Expended in Ord Dept 2-10 lbs Charges & Grenadine Primers for 9" S.B. 1-9 lb Charge & 1 Time fuse Primer for 8" M.L.R. & 1-6 lb charge & 1 Steel Ck dotting Primers for 6 Pdr B.L.R.

Examined and found to be correct.

B. B. Darling
Lieut U S N

S. W. Morgan
Lieut Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to Singapore.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a						cir		
1	7	2	85.6	E. by N.	S. by W.	2			30.07	81	81	78	80	b. c.	cir-cum.	6	L
2	7	8	92.2	"	"	2			30.05	81	81	78	80	"	"	7	"
3	6	0	5.9	"	"	1			30.02	80	80	78	80	"	"	5	"
4	7	0	12.7	"	"	1			30.02	81	81	78	80	"	"	8	"
5	6	8	19.0	"	S. W.	1			30.03	81	81	77	81	"	cir-cum	5	L
6	6	3	25.5	"	"	1			30.03	81	81	77	81	"	"	7	"
7	6	9	32.4	"	"	1			30.06	82	82	77	81	"	"	7	"
8	6	8	39.5	"	South	1			30.09	83	83	77	81	"	"	8	"
9	6	8	46.2	"	S. W.	1	0		30.11	84	83	77	81	"	"	8	"
10	6	7	50.4	"	Calm	0	0		30.11	84	84	77	81	"	"	6	"
11	5	5	51.4	"	Variable	1	0		30.11	85	85	77	81	"	cir-str.	8	"
Noon.	6	5	58.2	"	"	1	0		30.09	86	85	77	82	"	"	8	"

Course and distance made good since preceding noon by observations, E 3/4 N 71 knots tenths.

Position at Noon: Latitude by D. R. N 5 . 58 "
Longitude by D. R. E 89 . 47 "
Latitude by observations of ⊙ N 6 . 03 "
Longitude by chronometer from Forenoon Observations of ⊙ E 89 . 30 "

Dy. 115.2.

Position at 8 a. m.: Latitude by D. R. do do do N 6 . 01 " Longitude by Chro do do do E 89 . 06 "

Position at 8 P. M.: Latitude by D R N 6 . 02 " Longitude by Chro PM do do E 90 . 08 "

Current during the time, knots 2/5 tenths per hour, setting to the W. N. W.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 8h " E. by N. E . 40 "

Water expended during the preceding 24 hours, 4/20 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1850 "

Coal consumed during the preceding 24 hours, 5 tons 585 lbs.

Coal remaining on hand at Noon, 124 " 1665 "

P. M.												
1	5	0	63.2	East	Variable	0-1		30.05	86	86	80	82	b. c.	circum.	8	L
2	1	8	65.0	"	North	2		30.03	86	83	79	83	"	"	8	"
3	6	6	71.6	"	N. E.	2		30.01	85	83	78	83	"	cir	8	"
4	6	7	78.3	"	E. N. E.	2		30.01	84	83	78	83	"	"	8	"
Dy. 115.3 N. 6.02												
5	6	4	84.8	"	N. E. by N.	1-2		30.00	82	82	78	83	"	cir-cum	6	"
Dy. 2.90°												
6	6	6	91.6	"	N. N. E.	1-2		30.04	82	82	78	83	"	"	3	"
7	6	6	98.2	Sounding	E. N. E.	1		30.04	82	81	78	83	"	"	4	"
8	5	3	98.5	East	"	1		30.04	82	82	78	83	"	"	4	"
9	6	5	0.0	"	"	2	0	30.06	83	82	78	81	"	"	0	"
10	6	4	11.4	"	East	2	0	30.08	82	82	78	81	"	"	0	"
11	6	8	18.2	"	E. N. E.	2	0	30.08	82	82	78	81	"	"	0	"
Mid.	6	6	24.8	"	N. E. by N.	2	0	30.08	82	81	78	81	b. c.	"	1	"

under the command of Commander T. F. Jewett, U. S. Navy,

Saturday December 11th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences Wet until A. M.

Generally cloudy with cir- cum clouds. Bright moonlight. Pleasant. Light breze and abs from S.W. Shortened sail at 2.30. Furled sail at 3. Shifted lead of fore and fore topsail braces. Smooth sea with long S.W. by swell to which ship rolled easily. At 3h. sighted a steamers mast-head light 3 points on starboard quarter. At end of watch on course E. by N. Under steam alone. Steam 45. Pressure 35.

C. A. T. Dechaux
Ensign U. S. N.

From 4 to 8 P.M.

Clear and pleasant. Light airs from S.W. hauling to S.E. Smooth sea with long swell from W. Course E. by N. Steam alone.

C. Galloway
Lieut. U. S. N.

From 8 A.M. to Meridian.

Clear and warm. Calms and light variable airs. Smooth sea with a long irregular swell from W. By order of Commander Judge placed Joseph Rodriga Ds in double irons for ten (10) days for refusing to obey orders. Steam alone. Course E. by N. at 12h. changed course to Dst. Sighted two steamers.

H. C. Gearing.
Lieut U. S. N.

From Meridian to 4 P.M.

Clear pleasant weather. Light breze from North to N.E. by E. Variable airs. At 12.40 stopped and took cast No 63 in 17 fms bottom clay and sand. Expended one sinker. At 2 Set fore and aft sail. Took it in at 3.30 Steam 45. Revolutions 34.

D. L. Darling
Lieut U. S. N.

From 4 to 6 P.M.

Partly clear with cir cum clouds. Pleasant. Light airs to gentle breze from N. E. by N. and N. N. E. Smooth sea with long swell from West and S.W. to which ship rolled easily. Set fore and aft sail at 5h. At end of watch on course East, under steam and fore and aft sail. Steam 45. Revolutions 35 1/2.

C. A. T. Dechaux
Ensign U. S. N.

From 6 to 8 P.M.

Fair and warm. Light airs from E. by E. Sea smooth. Long swell from W. at 6h. Stopped for sounding. Hauled down head sails. Got cast No 64, 156 fms clay and sand. Expended one sinker. At 7h. Stood on course East, under steam alone. At 7h 15m took in sounding and Main topsail.

C. Galloway
Lieut U. S. N.

From 8 P.M. to Midnight.

Cloudy pleasant. Obscured moonlight. Light breze from East to N. E. by N. Under steam. At 11h 20m set jib and fore topmast staysail. Course East.

H. C. Gearing.
Lieut U. S. N.

Examined and found to be correct.

W. W. Williams.
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex" 30" Rate,

at Sea making passage to Singapore

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a								
1	6	1	20.9	East	N.E	1-2			30.05	81	74	81		b.c.	cir-cum and cum	2	S
2	6	3	34.2	"	"	1-2			30.02	81	74	81		"	"	2	"
3	7	0	44.2	"	"	2			30.00	81	80	74	81	"	"	3	"
4	7	0	51.2	"	N. N. E.	2			30.00	80	80	74	81	"	"	5	"
5	6	9	58.1	"	"	2			30.00	80	80	74	81	"	cir-cum nimb	5	"
6	6	4	63.5	"	"	2			30.01	80	80	74	81	"	"	6	"
7	2	6	66.1	"	"	2			30.02	80	80	74	81	"	cir-cum	8	"
8	7	0	72.8	"	"	2			30.05	80	80	74	81	"	"	5	"
9	7	0	78.8	"	"	2			30.06	81	81	74	81	"	"	6	"
10	7	2	87.0	"	N.E by N.	2			30.06	82	81	74	81	"	"	8	"
11	6	3	90.3	"	"	2			30.05	82	81	74	81	"	"	8	"
Noon.	7	3	100.6	"	"	2-3			30.05	82	81	74	81	"	"	8	"

Course and distance made good since preceding noon by observations, E 1/4 N 113 knots tenths.

Position at Noon:
- Latitude by D. R. — N 6 .00. "
- Longitude by D. R. — E 91 .56. "
- Latitude by observations of ⊙ — N 6 .08. "
- Longitude by chronometer from Forenoon Observations of ⊙ — E 91 .23. "

Dy. 1153

Position at 8 a. m.
- Latitude by DR — N 6 .09. "
- Longitude by Chro Do Do Do — E 90 .55 "

Position at 8 P. M.
- Latitude by DR — N 6 .05. "
- Longitude by Chro PM Do Do — E 92 .06. "

Current during the time, 1 knots 3 tenths per hour, setting to the W. by N

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 8' " East E .46.5 "

Water expended during the preceding 24 hours, 400 gallons.

Water 1 1 during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1450 "

Coal consumed during the preceding 24 hours, 6 tons 760 lbs.

Coal remaining on hand at Noon, 118 " 905 "

P. M.														
1	7	1	91.7	East-	N.E by N.	2	0	30.00	82	80	74	81	b.c.	cum	7	S
2			Sounding			2	0	29.96	80	79	74	82	b.cl.	cir	4	"
3	6	0	4.7	E 1/4 S	N.E	2	0	29.96	80	79	74	82	b.c	cum	8	"
4	6	9	13.4	"	"	3	0	29.94	80	79	74	82	"	"	8	"
5	6	6	20.6	"	"	3		29.94	80	79	74	82	"	cir	4	"
6	7	1	27.2	"	"	3		29.96	80	79	74	82	"	"	6	"
7	6	9	34.3	"	"	3		29.99	80	79	74	81	"	cum-str	4	"
8	6	8	41.6	"	"	3		30.01	80	79	74	81	"	"	8	"
9	6	8	48.6	"	N. N. E.	3		30.03	80	79	74	80	"	cir cum	8	"
10	6	9	55.4	"	"	3		30.04	80	79	74	80	"	"	8	"
11	7	1	62.3	"	"	3		30.02	80	78	76	80	b.cl.	"	1	"
Mid.	7	0	76.4	"	"	3		30.02	80	79	76	80	"	"	1	"

under the command of Commander T. F. Jewell, U. S. Navy,
Sunday December 12th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & ends H A M

Clear pleasant weather. Bright moonlight. Light airs & breezes from N.E first & last hours. At 2 Set main topsail & spanker and at 2.30 Gaff topsail and flying jib. Long swell from W. S.W. Ship rolling & pitching easily. Steering a course East. At end of watch ship under steam & fore & aft sail including gaff topsail. Steam as Revolutions 35.

B.F. Welling
Lieut U.S.N

From H. to 8 A M.

Partly clear with cir-cum & cirro clouds. Moon showing first part. Pleasant light breeze from N.N.E. Smooth sea with long S.W. swell. Ship rolling easily. Started sounding, cast No 65, at 5.55. finished at 6.35. bottom at 1443 fms, mud & sand. At end of watch under fore & aft sail & steam. Steam as Revolutions 36.

C.F. Peetyn
Ensign U.S.N.

From 8 A. M. to Meridian

Clear & warm. Light breeze from N.W. then N. N. E at 9.20 Quarters and inspection at 10.00 Articles of War. At 10.20 Divine Services. At 10.55 set foresail. Sea smooth with long swell from West. Steam, fore & aft sail & foresail.

E.D. Galloway
Lieut U.S.N

From Meridian to 4 P. M.

Warm pleasant weather with light rain squalls 2.00 hour. Light increasing breeze from N.E. Smooth sea. At 1.00 Hauled down head sails furled foresail & stopped ship for cast No 66, in 2001 fms bottom. mud & sand. Went ahead again, on course E 1/4 S, at 2.10 resetting head sails, fore & aft sail and steam at end of watch.

H.B. Manning
Lieut U.S.N

From 4 to 6 P.M.

Clear pleasant weather. Gentle breeze from N.E. At 5.00 sent down Jib and Royal Yards. Under steam & fore & aft sail. Steam as Revolutions 36.

P.F. Wagner
Lieut U.S.N.

From 6 to 8 P.M.

Generally clear with cum-ulo clouds. Pleasant. Gentle breeze from N.E. Sea smooth with long W.S.W. swell. Moon rose over cloud bank at 7.00 At end of watch on course E 1/4 S. Under steam & fore & aft sail. Steam as Revolutions 38.

C.F. Peetyn
Ensign U.S.N.

From 8 P.M. to Midnight

Clear first hour cloudy during remainder of watch. cir & cirro-cumulo clouds coming over from E. Lightning all round S.W. horizon latter part. Sea smooth with long swell from West. Gentle breeze from N.N.E. Steam and fore & aft sail.

E.D. Galloway
Lieut U.S.N.

Examined and found to be correct.

H.P. Wagoner
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Searmaking passage to Singapore

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a								
1	6	0	82.4	E. 1/4 S.	N. E. by N.	2	0		30.018	80	74	68	0	b.c.	cir-cum	4	S.
2	6	5	88.9	"	"	3	0		29.988	80	74	68	0	"	"	2	"
3	7	1	96.0	"	"	3	0		29.968	80	74	68	0	"	"	1	"
4	6	6	96.6	Sounding	"	3	0		29.968	80	74	68	0	"	"	1	"
5	4	7	1.3	E. 1/4 S.	"	3			29.948	80	74	68	0	"	cir	3	"
6	7	5	7.8	"	"	3			29.98	80	74	68	0	"	"	4	"
7	7	4	16.2	"	"	3			30.00	80	74	68	0	"	"	5	"
8	7	5	23.7	"	"	2-3			30.03	80	74	68	0	"	"	6	"
9	7	0	30.9	"	"	2			30.05	80	80	74	0	"	cir-cum	5	"
10	7	3	38.2	"	"	3			30.06	80	80	74	0	"	"	6	"
11	6	6	44.8	"	"	3			30.05	80	80	74	0	"	"	5	"
Noon.	7	0	52.8	"	"	3			30.05	80	80	74	0	"	"	4	"

Course and distance made good since preceding noon by observations, E. 1/4 S. 133 knots. tenths.

Position at Noon:
- Latitude by D. R. — N 5 .6 "
- Longitude by D. R. — E 93 .5 "
- Latitude by observations of ⊙ — N 6 .0 "
- Longitude by chronometer from Forenoon Observations of ⊙ — E 93 .3 "

Lg. 1153

Position at 8 a. m.
- Latitude by D. R. — N 6 .0 "
- Longitude by Chro do do do — E 93 .0 "

Position at 8 P. M.
- Latitude by D. R. — N 6 .0 "
- Longitude by Chro P.M. do do — E 94 .0 "

Current during the time, knots .6 tenths per hour, setting to the W. N. W.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " " E. 1/4 S. E 15 "

Water expended during the preceding 24 hours, 20 gallons.

Water ——————. during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1030 "

Coal consumed during the preceding 24 hours, 7 tons 1510 lbs.

Coal remaining on hand at Noon, 110 " 1635 "

P. M.													
	2	0	54.3	E 1/4 N.									
1	2	2	55.5	Sounding	N. N. E.	3		30.008	18	0	74	58	0	b.c.	cir-cum	7	S.
	2	2	56.7	E. 1/4 N.									
2	Steaming around				"	2		30.008	18	0	74	58	0	"	"	8	"
3	light.				"	2		30.008	32	82	74	80		"	"	8	"
4	3	5	60.2	E. 1/4 N.	"	2		30.008	28	1	74	58	1	"	"	8	"
5	6	5	66.7	"	N. E. by N.	2	3	30.008	18	0	74	48	1	"	cir-cu	7	"
6	7	2	73.9	"	"	3	3	30.018	08	0	74	48	1	"	"	2	"
7	7	6	81.6	"	"	3		30.018	08	0	74	48	1	"	"	6	"
8	7	2	87.8	"	"	2		30.018	08	0	74	48	1	"	"	2	"
9	7	0	95.6	"	"	2-3		30.038	08	0	74	58	0	"	"	8	"
10	7	9	103.5	"	"	2-3		30.038	08	0	74	58	0	"	"	7	"
Md.	3	2	106.7	"	"	2-3		30.038	08	0	74	58	0	"	cir-cum	6	"
Mid.	7	2	113.2	"	"	2-3		30.018	08	0	74	58	0	"	"	6	"

under the command of Commander T. F. Jewell, U. S. Navy,

Monday December 13th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commenced and Ended H. A. M.

Fine weather. Moonlight. Gentle breeze from N. E by N. Smooth sea. At 3.05 patent log reading 96.6 Hauled down head sails and stopper to sound. Cast No 64 23 fms. bottom sand. Expended, one sinker. Reeling in coir at end of watch.

No bearings.
Lieut U. S. N

From 4 to 8 A. M.

Clear pleasant weather. Light to gentle breeze from N. E by N. Passed several drifting canoes and considerable drift-wood. Exchanged colors with an English Steamer standing to Wd. Under steam fm and aft sail and jib topsail on course E by S. At 4.30 went ahead and set fore and aft sail. Steam 4. Revolutions 39.

P. A. Davis
Lieut U. S. N

From 8 A. M. to Meridian

Generally clear bright and pleasant. Cirro cumulus clouds. Light to gentle breeze from N. E by N. Smooth sea with long W by swell. At 9.30 went to Quarters for inspection. At 10.00 passed a French Troop-Ship bound to Wd. At 10.05 cleared Ship for Action. All ready at 10.11. Secured in 1 hour. Set clocks ahead 9 minutes. At end of watch on course E 1/4 S. under steam and fm and aft sail. Steam 48. Revolutions 39.

C. A. Dotyon
Ensign U. S. N

From Meridian to 4 P. M.

Clear and pleasant. Gentle breeze from N. N. E. Smooth sea with moderate swell. Ship rolling quickly but easily 3° to 5°. At 12.15 stopped for sounding. At 12.50 finished sounding. Got cast No 68 1186 fms. mud and sand. Expended one sinker. Shot coarse E 1/4 N. At 1.07 sent up regulation target over bank in fm and aft sails. At 1.16 General Quarters. Exercised at target practice with great guns. Expended in Ordnance Department 12-64 Charges, 12 Parrott Shell and 12 Steel Electric Firing Primers for 6" Bar B. L. R. 12-34 lb Charges, 12 Cutter Shell, 12 Gaine Friction Primers for 8" N. L. R.; 24 10 lb Charges, 24-5" Shell and 25 Percussion Primers for 9" S. B. Officer of Powder Division overhauled and cleaned magazine and shell room flood cocks. At 3.15 ceased, picked up target and stood course E 1/4 N. under steam and fm and aft sail. Patent log reading 56.7.

D. D. Galloway
Lieut U. S. N

From 4 to 6 P. M.

Fine weather. Light to gentle breeze from N. E by N. Smooth sea. At 5.20 started fires under boilers 1 and 3 for distilling. Steam and fm and aft sail. Course E 1/4 N.

No bearings.
Lieut U. S. N

From 6 to 8 P. M.

Clear and pleasant. Light to gentle breeze from N. E by N. Moon rose at 7.19. At 6.55 went to quarters. Set and took in fore and aft sail. At end of watch hauled under steam and fm and aft sail, on course E 1/4 N. Started distilling at 7.20. Steam 50. Revolutions 40.

R. D. Evans
Lieut U. S. N

From 8 P. M. to Meridian

Partly clear, bright moonlight. Cirro stratus and cirro cumulus clouds. Light to gentle breeze from N. E by N. Smooth sea. At 10.05 stopped to sound. Finished and went ahead at 10.25. Cast No 69, bottom at 5 fms. grey mud and fine sand. At end of watch on course E 1/4 N. under steam and fore and aft sail. Steam 45. Revolutions 39. Distance 7.

Examined and found to be correct.

H. Townsend
Ensign U. S. N

S. P. Magruder
Lieut
Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Seamaking passage to Singapore.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a								
1	7	1	20.3	E. 1/4 N.	N. E. by N.	3			30.018	0	79	75	81	b c	cir-cum	7	S
2	6	7	27.0	"	North	3			30.008	0	79	74	81	"	"	8	"
3	7	0	34.0	"	"	3			29.998	0	79	74	81	"	"	7	"
4	7	5	41.5	E. by E. 3/4 E.	"	3			29.988	0	79	74	81	"	"	4	"
5	6	6	49.0	E. by E. 1/2 E. E. by S. 1/4 S.	N. N. E.	2	2		29.998	0	79	74	81	"	"	1	"
6	8	1	57.2	S. E. by E.	"	2	2		29.018	0	79	74	81	"	"	3	"
7	8	2	65.3	E. 1/2 S.	"	2	2		30.038	0	79	74	81	"	"	3	"
8	7	3	72.5	"	"	2	2		30.048	0	79	74	81	"	"	4	"
9	8	3	80.8	"	"	2			30.038	0	79	74	81	"	"	4	"
10	7	3	88.1	"	"	2			30.038	0	79	75	81	"	"	4	"
11	2	1	90.2	"	"	3			30.038	0	81	76	81	"	"	4	"
Noon.			Target Practice		"	2			30.018	0	82	77	81	"	"	6	"

Course and distance made good since preceding noon by observations, East 131 knots / tenths.

Position at Noon:
- Latitude by D. R. — N 5 .52 "
- Longitude by D. R. — E 95 .41 "
- Latitude by observations of ⊙ — N 6 .00 "
- Longitude by chronometer from Forenoon Observations of ⊙ — E 95 .36 "

Position at 8 a. m.:
- Latitude by D R — N 6 .01 "
- Longitude by Chro Do Do Do — E 95 .20 "

Position at 8 P. M.:
- Latitude by D R — N 5 .52 "
- Longitude by Chro P M Do Do — E 96 .24 "

Current during the time, knots 3 tenths per hour, setting to the N W.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 4.28 " " E 3/4 S. E 1 .34 "

Water expended during the preceding 24 hours, 400 gallons.

Water Distilled during the preceding 24 hours, 520 "

Water remaining on hand fit for use at Noon, 11150 "

Coal consumed during the preceding 24 hours, 9 tons 950 lbs.

Coal remaining on hand at Noon, 101 " 1385 "

P. M.														
1	3	3	93.5	E. 1/2 E.	N. N. E.	2			29.998	1	82	76	82	b c	cir-cum	5	S
2	5	7	99.2	"	"	2	3		29.998	1	82	76	82	"	"	6	"
3	6	5	5.7	"	"	3			29.948	1	82	76	82	"	"	7	"
4	3	6	11.3	E. by S. 1/4 S.	"	3			29.938	1	81	76	82	"	"	5	"
5	8	0	19.3	"	"	3			29.958	1	80	74	82	"	cumu	4	"
6	8	3	27.6	"	N. E. by N.	3			29.938	1	80	76	82	"	cir-cum	1	"
7	8	6	36.2	"	N. N. E.	3	3		29.968	1	80	76	81	o c	cumu	0	"
8	8	2	44.4	"	"	3	3		30.008	1	80	76	81	"	"	0	"
9	8	2	52.6	"	"	3	3		30.018	1	80	76	81	b c	"	1	"
10	8	2	60.8	"	N. E. by N.	3			30.028	1	81	76	81	o c	"	0	"
11	8	1	68.9	"	"	3			30.028	1	81	76	81	"	"	0	"
Mid.	7	8	76.7	"	"	3			30.028	1	81	76	81	b c	"	1	"

under the command of Commander T. F. Jewett, U. S. Navy,

Tuesday December 1st, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From Meridian to 4 A.M.

Clear first hour, cloudy remainder of watch. Gentle breeze from N'ard. Sea smooth with occasional long swell from West. At 12.20 hailed fires from boilers 6 & 8 on account of leaking No 6. Stopped distiller & conducted boilers 1 & 3 to engine. ~~At 2.30~~ Started fires in 1 & 3 for distilling at 1.40. At 12.40 sighted Pulo Brasse Light from aloft bearing about S.E. by E. At 2.00 in sight from deck bearing S.E. 1/4 S. At 2.40 sighted Pulo Rondo Island bearing E. 1/4 S. At 2.56 hauled course to E.S.E. 1/4 E. At 3.00 set foresail.

D. Galloway
Lieut U.S.N.

From 4 to 8 A.M.

Fine weather. Cir-cumulus clouds. Moonlight till dawn. Light breeze from N.N.E. Smooth sea. From 4 to 6, under cunning of Sundry Sundry standing through passage to S.W. of Pulo Rondo (Taepeung). Steering various courses passing this island at a distance of about 1/2 miles. At 6.00 Pulo Rondo abeam, set course E. 1/2 S. 1/4 in foresail. At 5.20 began distilling into the tanks. Under fore & aft sail & steam with four boilers. At 8.00 Southwest end of Pulo Way & Pulo Brus Light in range, bearing S.W. Center of Pulo Rad bearing S. by E.

H. C. Gearing.
Lieut U.S.N.

From 8 A.M. to Meridian.

Clear pleasant weather. Light to gentle breezes from N.N.E. At 9.00 mustered & inspected at Quarters. At 10.15 fired target; shipped ship & labled in paleut log reading 90.2. Exercised at Target Practice with Gatling Gun & 1st div. with small arms. Rigged torpedo spars, fired spar with service torpedo & starboard recd. exercise torpedo. Fired a barrel over for target. At 11.36 starboard (Exercise) torpedo exploded prematurely; fragments injured the following men as follows: Peter Hagle, 1c apft, wound in right temple penetrating the skull & brain; William C. Hammond, 1c apft, wound in left temple penetrating the skull and brain; A. Rottig, 1c apft, flesh wound of right thigh; R. F. Forbrack, Sea apft 2c, flesh wound left knee; W. J. Mc Fadden, Sea apft 2c, small scalp wound above right temple with slobbing; W. F. Hogan Chief Mate, small flesh wound of right knee. At 12. Peter Hagle, 1c apft, died, without having recovered consciousness. At end of watch engaged pitching up targets. Expended in Ordnance dept. 1 Exercise Torpedo, 2 Pins, 1 Spindle, 5 Discs Cast, 1 Disc Dry, 1 Detonator, 1 Rubber Gland (Cord), & 93 pounds of 8 Cal Cartridges.

D. G. Walling
Lieut U.S.N.

From Meridian to 4 P.M.

Partly clear bright & warm. Cir-cum clouds. Light to gentle breeze from N.N.E. Smooth sea, tide sets to N.W. & W. last three hours. At 3.17 called "all Hands bury the dead". At 3.20 stopped ship & commenced burial services & at 3.25 launched the body of Peter Hagle, 1c apft, overboard. Lat N 6° 38', Lng E 95° 52' At 3.25 burial services were over; went ahead full speed at 3.29. At 3.30 set fore & aft sail & changed course to E. 3/4 S. P.L. 4/4 At end of watch on course E. 3/4 S. under steam & f & a. sail. Steam 4 S. Revolutions 80.

A. T. Long
Ensign U.S.N.

From 4 to 6 P.M.

Cloudy & pleasant. Gentle breeze from N.N.E. Heavy bank of cumulus clouds over land on starboard bow & beam. Sea smooth. Quarters at 6. At 4.40 set foresail.

D. Galloway
Lieut U.S.N.

From 6 to 8 P.M.

Cloudy & pleasant. Gentle breeze from N.N.E. Sea smooth. Steam & f & a. sail & foresail. Hauled down log. Foremast stay sail at 4.40. Course E. 3/4 S.

H. C. Gearing.
Lieut U.S.N.

From 8 P.M. to Midnight

Cloudy & pleasant weather. Gentle breezes from N.E. by N. Moon rose at 8.47. Smooth sea. Heavy banks of clouds to S & W. Distilling. At end of watch ship under steam, foresail & fore and aft sail on course E. 3/4 S.

D. G. Walling
Lieut U.S.N.

Examined and found to be correct.

A. T. Williams.
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to Singapore

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	7	6	8.8	E.3/4.S	N.E.by.N.	3			30.008	81/2	81			c.d.o	cumt nimb	0	S
2	7	6	9.4	"	"	3			29.988	81/2	81			"	"	0	"
3	6	6	98.4	"	E.by.S	3-1			29.98	80	80 1/2	81		c.r.q.	nimb	0	"
4	7	2	105.4	"	S.S.E.	3-5			29.98	79	79	78	80	o.c.r.q.	"	0	"
5	7	2	12.6	"	"	3			29.98	78	78	78	80	o.c.a.	"	0	"
6	5	7	18.3	S.E.by.E.	South	3			29.99	78	79	78	81	o.c.d.	cum	2	"
7	8	2	28.2	"	"	3			30.00	79	78	78	81	o.c.	"	4	"
8	7	3	35.5	"	"	3			30.00	79	78	78	81	"	"	4	"
9	7	3	43.8	"	S.S.W.	3	3		30.00	79	78	78	81	"	cir	1	"
10	7	8	50.6	"	"	3			30.0	80	79	78	81	"	"	1	"
11	6	1	56.7	"	"	3-3			30.0	80	79	78	81	"	"	2	"
Noon.	7	6	64.3	"	"	2			30.01	81	80	78	81	"	"	3	"

Course and distance made good since preceding noon by observations, E.by.E.3/4 E. 15.7 knots. tenths.

Pg. 1154 Position at Noon:
- Latitude by D. R. — N 5 . 23 . "
- Longitude by D. R. — E 97 . 59 . "
- Latitude by observations of ⊙ — N 5 . 20 . "
- Longitude by chronometer from Forenoon Observations of ⊙ — E 98 . 06 . "

Position at 8 a.m.
- Latitude by D.R. — N 5 . 36 . "
- Longitude by Chron do do do — E 97 . 42 . "

Position at 8 P. M.
- Latitude by D.R. — N 4 . 51 . "
- Longitude by Chron P.M. do do — E 98 . 44 . "

Current during the time, knots 3 tenths per hour, setting to the E.by.E.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head — ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " — ° ' "

Variation of the Compass by Azimuth ⊙ observed at " " — ° ' "

Variation of the Compass by Azimuth ⊙ observed at 4 P.M. " S.E.by.E. E 1 . 37 . "

Water expended during the preceding 24 hours, 450 gallons.

Water Distilled during the preceding 24 hours, 1300 "

Water remaining on hand fit for use at Noon, 2000 "

Coal consumed during the preceding 24 hours, 10 tons 80 lbs.

Coal remaining on hand at Noon, 91 " 1305 "

P. M.											
1	7	4	71.7	S.E.by.E.	S.S.E.	1-2	29.99	83	82	1/2 81	b.c.	cir cumnimb	2	S
2	2	3	75.9	S.W.by.S. S.E.by.E.	Calm	0	29.95	83	83	1/2 81	"	cir cum	2	"
3	5	1	81.0	"	East	0-1	29.93	84	83	1/2 81	"	cum str	6	"
4	7	5	88.5	"	N.N.E.	1	29.93	84	83	1/2 81	"	"	4	"
5	4	1	92.6	Syzygial S.E.by.E.	S.E.by.E.	0-1	29.94	82	82	1/2 81	"	cir	4	"
6	7	1	99.7	"	"	0-1	29.95	81	82	1/2 81	"	"	9	"
7	7	7	7.4	"	"	0-1	29.96	81	81	1/2 81	"	nimb	9	"
8	7	6	15.0	"	"	0-1	29.99	81	82	80	"		7	"
9	7	3	22.3	"	S.W.	1 0	30.01	83	82	80	"	cir str	6	"
10	7	3	29.6	"	"	1 0	30.03	83	82	1/2 81	"	cir cum	6	"
11	7	7	37.3	"	"	1 0	30.04	83	82	1/2 81	"	"	1	"
Mid.	7	7	45.0	"	"	1 0	30.03	83	82	1/2 81	"	"	1	"

Sy. 1184 N 5° S 98.37

under the command of Commander T. F. Jewell, U. S. Navy,
Wednesday December 15th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences Meets A. M.

Cloudy, overcast last hour. Clouds cumulus & nimbus ugly appearances to SE. first part with drizzling rain. Squally latter part with almost continual rain. last hour heavy squalls from S.E. to South. Gentle breeze from N.E. by E. first part at 3:30 took in fore & aft sail. Stopped to sound at 2nd dst, no bottom at 150 fms. Smooth sea. Ship steady. at end of watch on course E. by S, under steam alone. Steam 50. Revolutions 74.5

C.S.T. Dechman
Ensign U.S.N.

From 4. to 8 A. M.

Overcast & raining first hour cloudy & pleasant remainder of watch. Gentle breeze from South. Sea smooth. At 5th 50 fathoms cast Thomsons Machine 150 fms no bottom. At 6th 8 changed course to S.E. by E. At 6th 30 sighted high land on starboard beam. At 8th 20 Cape Point bore (p.c) S 3/4 W. At 7th 40 made fast & aft sail. Distilling.

E.D. Galloway
Asst Eng U.S.N.

From 8 A. M. to Meridian.

Cloudy & pleasant weather. Gentle decreasing to light breeze from S & E. Smooth sea. At 9th 30 mustered & inspected at quarters. At 9th 45 a Board of Investigation of which Asst Engr A.S. Wadhams & D. Hoag Junior Master met on poop deck. At 10th 15 high land ahead was reported from mast head and on starboard beam. Steaming course S.E. by E. for & aft sails set. At 11th 30 Board of Investigation adjourned to meet at 1.30 P.M. Steam 45. Revolutions 98.5 Distilling.

C.F. Boorman
Ensign U.S.N.

From Meridian to 4 P. M.

Partly clear, warm weather. Light airs to gentle breeze from S & E. light airs from East & N.E. & calms. At 1 hauled in fore & aft sail. At 1:20 steered S.E. to examine some floating drift-wood that appeared to be a boat. At 1:30 stopped engines for repairs. Ship lying becalmed until 2:15 when got ahead again on course S.E. by E. Board of Investigation convened at 2.45 & adjourned at 3:45. Observed a number of reddish brown snakes in water. Smooth sea. Sighted a steamer standing to E. Distilling.

B.F. Watkins
Asst U.S.N.

From 4. to 6. P. M.

Partly clear, bright & pleasant. Few cumulus & stratus clouds. Smooth sea. Ship steady. At 4th 30 shoved down to swing ship. Finished at 4th 35 & went ahead on course. Scraped Spars. Unshipped sounding machine platform in the bow. Exchanged colors with a distant steamer bound to E. At end of watch on course S.E. by E. Steam alone. Steam 50 Revolutions 98.

C.S.T. Dechman
Ensign U.S.N.

From 6. to 8. P. M.

Fair & warm. Calms & light airs from East. Lightning over land to the E. Sea smooth Distilling.

E.D. Galloway
Asst U.S.N.

From 8. P. M. to Midnight.

Warm & clear first part cloudy over third hour. Observed moonlight after 10th. Light breeze from S.W. Steam & sail for topmast staysail. Course S.E. by E. Distilling

H.C. Gearing
Asst U.S.N.

Examined and found to be correct.

A.V. Wadhams
Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to Singapore

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	6	5	51.5	S.E by E.	S.W.	1-2			30.018	80	79	78	81	b.cl.	cum cum	1	S.
2	8	3	59.8	"	S.W. by S.	2			29.98	81	80	79	81	"	"	1	"
3	7	4	67.2	"	N.E by E.	3			29.96	80	79	76	81	o.cir.	"	0	"
4	6	9	74.1	"	S.S.W.	3-0			29.95	79	78	75	81	"	cum	0	"
5	7	4	81.5	"	West	1-2			29.94	79	78	76	80	"	"	0	"
6	8	0	89.6	"	N.N.W.	2-3			29.99	79	79	76	81	"	"	0	"
7	8	4	98.1	"	Variable	2			30.00	79	79	76	80	o.c.r.	"	0	"
8	2 5	6	105.4	S.E. by E.	South	2-1			30.03	79	79	76	80	o.c.	cirs	0	"
9	3 4	3	12.0	S. "E	"	1			30.06	79	79	76	81	o.cl.	"	0	"
Og 11h 8m Ar 3h 5m 0s 10	7	8	19.8	"	"	1			30.06	79	79	76	82	f.cl	"	1	"
E 100° 11	6	4	26.2	"	"	1			30.05	79	79	76	82	"	cir	2	"
Noon.	7	2	33.4	"	"	1			30.04	80	80	77	82	b.c.	cir cum	2	"

Course and distance made good since preceding noon by observations, S.E 3/4 E 15 4/4 knots. tenths.

Og. 11h 8m Position at Noon:
- Latitude by D. R. — N 3 ° 40. "
- Longitude by D. R. — E 100 ° 22. "
- Latitude by observations of ⊙ — N 3 ° 45. "
- Longitude by chronometer from Forenoon ~~Observations of ☉~~ Bearings of Pulo Jarra — E 100 ° 08. "

Position at 8 a. m.
- Latitude by D. R. — N 4 ° 00. "
- Longitude by Chron Dr Dr Dr — E 99 ° 53. "

Position at 8 P. M.
- Latitude by D. R. — N 2 ° 55. "
- Longitude by Bearings of Light on One Fathom bank — E 100 ° 52. "

Current during the time, knots .6 tenths per hour, setting to the W. N. W.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 4h 19 " " 9 6 E 1 ° 31 "

Water expended during the preceding 24 hours, 420 gallons.

Water Distilled during the preceding 24 hours, 1020 "

Water remaining on hand fit for use at Noon, 2650 "

Coal consumed during the preceding 24 hours, 10 tons 655 lbs.

Coal remaining on hand at Noon, 81 " 650 "

P. M.														
1	7	3	40.7	S.E	Calm	1	0	30.01	81	80	76	82	b.c.	cum str cum cir cum	4	S.
2	8	3	49.0	"	"	1	0	29.99	82	82	74	82	"		5	"
3	8	4	57.4	"	Calm	0	0	29.96	82	82	74	82	"	cum str cir str	6	"
4	8	8	66.2	"	Variable	1	0	29.95	83	82	74	82	"	"	7	"
5	8	5	74.7	"	E S E	1		29.95	83	82	74	82	"	"	6	"
6	8	9	83.6	S.E by S	"	1		29.96	82	82	74	82	"	"	7	"
7	8	6	92.5	"	Calm	0		29.97	82	81	74	82	b.cl.	str cum	5	"
8	2	2	100.7	S.E by E.	"	0		30.02	82	81	74	82	"	"	6	"
9	3 5	8	109.5	E S E	S E	0-1		30.04	82	81	74	82	b.cum d.	cum	2	"
10	9	0	18.6	"		0-1		30.04	82	81	74	81	b.c	nim	7	"
11	9	1	27.7	"	S S E	2-3		30.05	82	81	74	81	o.cir.l.	nim	0	"
Mid.	7	3	35.0	"	S W.	1-2		30.04	80	80	76	81	"	"	0	"

under the command of Commander T. T. Jewell, U. S. Navy,

Thursday December 16th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences Cutie A. M.

Overcast with lightning to S. & E. entire watch. At 12:15 set for & aft sail. At 2:25 took it in & at 2:30 wind shifted from light breez & airs from S.W. & S.W. by S. to gentle breez from N.E. by N. bringing down a heavy shower of rain that lasted remainder of watch accompanied by vivid lightning & heavy thunder. At 3:20 wind again shifted to S.S.W. At 4:10 got cast of lead in 13 fms. bottm grey sand. at 4:00 in 11 fms bottm grey sand. At end of watch under steam alone. Distilling. Steering a course S.E. by E. Passed three steamers standing to N.W. & W.

B.F. Waring
Lieut U.S.N.

From 4 to 8 A.M.

Overcast, cloudy. Raining first three hours. Mink clouds. Light variable airs to gentle breez. Sea smooth. At 6.52 saw off to lookout something resembling wreckage. Found it to be a tree trunk, roots up. Came to course at 7. At 6 set for & aft sail. At 7.20 under steam & for & aft sail. Steam 50. Revolutions 80. At 8 Pulo Jarra bore (N.) E. 5/8 E. & Pulo Varila S.W. by W. 5/8 W.

A.F. Jewett
Ensign U.S.N.

From 8 A.M. to Meridian

Overcast with light rain first part, clearing latter part with heavy rain to the W. Calms & light airs from South. Sea smooth. Broke out & flushed fore hold also sounding machine & gear. At 8.20 changed course to S.E. At 9.25 Pulo Jarra bore abeam (N.E. p.c.), distant 8 miles. Land in sight on port bow & beam.

Ter Galloway
Lieut U.S.N.

From Meridian to 4 P.M.

Warm & pleasant. Light airs from S.E. Calms & variable airs. Smooth sea. At 2.30 took in sail & A. Passed a quantity of floating logs, tree stumps, & brush wood. Observed several bright snakes swimming in the sea. At 12.30 stopped distilling & at 1.00 connected the two boilers with the engines. Course S.E.

H. Kellogg
Lieut U.S.N.

From 4 to 6 P.M.

Clear warm weather. Cloudy over the land. Light airs from E.S.E. Passed an English steamer standing to N.W. & W. High land in sight bearing E.N.E. to N.E. by E. Under steam alone.

From 6 to 8 P.M.

B.F. Waring
Lieut U.S.N.

Partly clear, bright starlight, pleasant weather. Lightning to S. & W. Clouds stratus. Calms. At 6.05 stopped to sound, bottm 34 fms, dark sand. At 6.30 4 bells. At 7.08 stopped to sound, bottm 23 fms, speckled sand. Under one bell full speed ahead 4 bells. At 7.30 sighted Ahe Fathom Bank Light, bearing (p.c.) N.E. Stood towards light keeping it on port bow. At end of watch light bearing (p.c.) E.S.E. 1/4 E. Course S.E. Steam alone Steam 52. Revolutions 80. Examined by Board of Survey & stood onboard the Coast Fish.

A.F. Jewett
Ensign U.S.N.

From 8 P.M. to Midnight

First part fair. Light breez from S.E. At 10.50 very heavy rain & squall came up from S.W. Continued heavy rain during remainder of watch. At 8.20 One Fathom Bank bore (p.c.) East. Changed course to E.S.E. At 10 p.m. Pulo Jumpon light bore (p.c.) N.E. At 10.50 lost sight of light in rain squall. At 12.30 changed course to S.E. by E. p.c.

Examined and found to be correct.

Ter Galloway
Lieut U.S.N.

A.V. Wadhams. Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to Singapore

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a								
1	8	6	143.5	S E by E 1/2 E.	South	3			30.04	79	84	76	81	b.c.r.	cumb	0	S
2	8	1	151.6		"	4			30.0	79	79	76	81	"	"	0	"
3	7	8	159.8	S E 3/4 E.	"	3			30.01	76	76	75	81	"	"	0	"
4	6	0	166.6	S E E.		2			30.00	76	76	74	81	"	"	0	"
5	4	7	171.3	S E by E 1/4 E.	S E.	2			30.00	79	76	74	81	"	"	0	"
6	8	4	80.2	"	East	2			30.02	79	76	74	81	b.c.d.	cumb	0	"
7	8	5	98.7	"	N. N. E.	3			30.04	79	76	74	82	l.c.	"	0	"
8	8	8	94.5	S E by E 3/4 E.	N. by E.	3			30.05	79	76	74	82	"	"	0	"
9	8	5	106.0	"	"	3			30.05	78	76	74	81	C.	cumstr	0	"
10	9	0	115.1	"	"	3			30.02	79	78	76	81	"	"	0	"
11	8	6	123.7	"	"	3			30.04	79	78	76	81	"	"	0	"
Noon.	7	0	130.7	"	"	3			30.03	79	78	76	81	"	"	0	"

* Course and distance made good since preceding noon by observations, S E 3/4 E 186 knots. tenths.

Position at Noon:
- Latitude by D. R. N 2 ° 10 ' "
- Longitude by D. R. E 102 ° 05 ' "
- Latitude by ~~observations of ☉~~ bearings Butis. Mean NNE 3/4 E Nt. Formosa E 3/8 S N ° 1 ° 5 ' ~
- Longitude by ~~chronometer from Forenoon Observations of ☉~~ bearings E ° 102 ° 35 ' ~

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Position at 8 a. m.
- Latitude by bearings Malacca Lt Ho. E N E 5/8 E ~ N 2 ° 09 ' "
- Longitude by " Po Untan Lt Ho. E S E 1/4 E E 102 ° 06 ' "

Position at 8 P. M.
- Latitude by bearings Po Pisang Lt N 1 ° 12 ' 30 "
- Longitude by " bore N N W 1/4 W E 103 ° 29 ' 30 "

Current during the time, 1 knots 5 tenths per hour, setting to the S E by S

Variation of the Compass by Amplitude ☉ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ☉ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ☉ observed at " ° ' "

Variation of the Compass by Azimuth ☉ observed at " ° ' "

Water expended during the preceding 24 hours, 420 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2230 "

Coal consumed during the preceding 24 hours, 12 tons 775 lbs.

Coal remaining on hand at Noon, 68 " 2115 "

P. M.																	
1	8	9	39.6	S E by E 3/4 E.	N. E.	3			30.00	80	79	76	82	b.c.	cir cumb	2	S
2	8 1/2	9	49.5	S E 3/4 E.	E. N. E.	2			29.98	80	79	76	82	"	"	3	"
3	8	9	58.9	S E by E.		2			29.96	80	80	76	82	"	"	2	"
4	9	2	66.1	"	N. E. by N.	3			29.96	80	79	76	81	"	"	2	"
5	9	6	75.7	"	"	3	2		29.96	80	78	76	81	b.c.	"	0	"
6	9	6	85.3	"	"	3	2		29.96	79	79	76	81	"	"	0	"
7	9	6	94.9	"	"	3			29.97	79	79	76	81	"	"	0	"
8	4 1/2	5	2.1	S E		3			30.03	79	79	76	81	l.c.	"	2	"
9	4 1/2	4	112.4	S E by E	North	3			30.04	79	79	76	81	"	cumb str	5	"
10	8	2	120.6	Standing towards	Raffles Point	3			30.03	79	79	76	81	"	"	4	"
11	3	6	128.2	N. E. by E 1/4 E.	"	3			30.04	79	78	75	80	"	"	2	"
Mid.			132.6	Standing into	Singapore	3			30.03	79	78	75	80	"	"	3	"

under the command of Commander T. F. Jewell, U. S. Navy,

Friday December 17th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commenced U/ Cutter H. A. M.

Raining entire watch with heavy rain 3d hour. Gentle to moderate breeze from South, hauling to S.S.W. and falling light at end of watch. Sea smooth. At 1.30 took cast with coasting machine in 16 fms, bottom of fine grey sand. At 2 a cast in 14 fms same bottom. Closed engineers to 35-38 turns U/ changed course to S. E. by E. At 2.18 changed course to S. E. In taking cast with coasting machine at 2.38 wire fouled, at 2.45 stopped ship U/ took cast with deep sea lead in 18 fms, line showing a set to the E. Changed course to S.S.E. at 3.00. Got cast at 3.45 with coasting machine in 22 fms, bottom of grey sand. At 3.50 sighted Rachada Point Light bearing E. by S. Steam alme. Secured at 4.05 S.S.E. Expended 15 fms sounding wire. Got starboard anchor off the bow.

H. L. Gearing
Lieut U. S. N.

From H. to 8. A. M.

Overcast raining & drizzling first two hours. Light breezes from S.S.E & East & gentle breezes from E.N.E. to N by E. At 7.40 made fast U/ aft sail U/ set foresail. At 4.20 changed course to S.E. by E. Rachada Light bearing E.N.E. Passed Str standing to N.W U/ W.S.W U/ sighted a steamer standing to S.E U/ E U/ a number of native boats. Hauled up foresail at 7.20. At 8 Rachada Light bore N.W. Str. Steam U/ Sails. Regulations U/S.

B. F. Waeing
Lieut U. S. N.

From 8. A. M. to Meridian

Cloudy & pleasant. Clouds cum U/ str. Gentle breeze N. by E. Smooth sea. At 9 set foresail. At 9.45 Po Undan Light House bore abeam. A French Steamer letters Int Code L. K. V. S (K. K) passed astern heading at 9.55 bound to S.W. At 9.30 went to quarters for inspection, after which drilled as follows: 1st 2d U/ 3d Div Gunnery Instruction, Marines Bayonet Exercise. At 11 steered on course S.E. by E. 3/4 E. under fore U/ aft U/ foresail U/ steam. 1st clock ahead 9 m at 11.55. Steam U/S. Revolutions U/S.

C. A. F. Jeffers
Ensign U. S. N.

From Meridian to 4 P.M.

Fair U/ pleasant. Light to gentle breeze from N. E. by N. At 1.55 changed course to S. E. 3/4 E. at 2.45 Formosa Shoal Light Ship bore N.E. 3/4 N. (Pc) distant 2.3 miles. Changed course to S. E. by E. at 2.00 sighted Penang Island. At 4.00 Penang Island Light bore (Pc) E. by E. 1/2 E. Sea smooth. Steam for U/ aft sail U/ foresail. Engaged drying gear U/ coast sailing for fort.

R. G. Galloway
Lieut U. S. N.

From 4 to 6 P.M.

Overcast. Gentle breeze from N.E. by N. Sea smooth. Steam for U/ aft sail U/ foresail. Course S.E. by E. At 5.25 Pulo Penang Light abeam. At 5.40 exchanged colors with American Bark Weldon (B. K. V. P.) of Boston Mass; receiving her number by Int Code our number not answered. Rowe head braces to their usual places. Pulo Penang Light at 6.00 bore N. by W. 3/4 W.

H. L. Gearing
Lieut U. S. N.

From 6 to 8 P.M.

Overcast, pleasant weather. Gentle breezes from N. E. by N. Standing down for buying Bolus Pt altering course to round it from 7.25 to 8.00, altering various courses. At 7.50 took in foresail. At 8.00 sighted Raffles light house bearing (about) S. S. E. 3/4 E. Passed two steamers standing to N.W U/ W. Under steam U/ for U/ aft sail. At 8 altering E. 3/4 S. Steam U/S. Rev U/S.

B. F. Waeing
Lieut U. S. N.

From 8 P.M. to Midnight

Partly clear with cumi U/ str clouds. Gentle breeze from North. Smooth Sea. At 8.55 sighted Raffles Lt bearing (Pc) E. by S. abeam. At 10. At 10.30 sighted lights of Singapore. From 11 to 12 standing into Singapore Roads in charge of Emd U/ Officers.

Examined and found to be correct.

C. A. F. Jeffers
Ensign U. S. N.

A. T. Williams
Lieut U/ Navigator.

LOG of the UNITED STATES Steamer "Essex" 3d Rate,

At Sea making passage to Singapore

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.	Sounding into	Singapore													cir		
1	Flood	N. E.	North	3				30.00	28	24	24		b.c.	cum	7	8	
2	"	"	"	2				29.98	28	24	24		" m	"	6	"	
3	"	"	"	2				29.96	24	24	24		b.c.	cum	9	"	
4	"	N. E. by N.	"	2				29.96	24	24	24		"		9	"	
5	"	N. N. E.	"	3				29.96	24	24	24		"	cir cum	8	"	
6	"	"	"	3				29.97	24	24	24		"	"	4	"	
7	"	N. by E.	"	3				29.99	24	24	24		"	"	4	"	
8	"	N. N. E.	"	3				30.02	28	24	24		b.cu.	"	4	"	
9	"		"	3				30.04	29	29	24		"	"	3	"	
10	"	N. E. by N.	"	3				30.04	28	28	26		"	"	3	"	
11	"	N. N. E.	"	3				30.03	28	28	26		"	"	3	"	
Noon.	"	N. E.	"	3				30.01	28	28	28		"	"	3	"	

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ′ ″

Longitude by D. R. ° ′ ″

Latitude by observations of ⊙ ° ′ ″

Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m. Latitude by ° ′ ″

Longitude by ° ′ ″

Position at 8 P. M. Latitude by ° ′ ″

Longitude by ° ′ ″

Current during the time, . knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 550 gallons.

Water Distilled during the preceding 24 hours, 270 "

Water remaining on hand fit for use at Noon, 2700 "

Coal consumed during the preceding 24 hours, 4 tons 207 lbs.

Coal remaining on hand at Noon, 61 " 1410 "

P. M.											
1	Flood	N. E by N.	N. E by N.	3	29.99	28	28	b.c.	cum nim	2	8
2	"	"	N. E.	3	29.95	28	28	"	"	1	"
3	"	"	"	3	29.93	28	26	o.c.rg.	nim	0	"
4	"	"	"	3	29.93	28	24	o.c.	"	0	"
5	Ebb	N. W. by W.	North	3	29.92	28	26	b.c.	cum	2	8
6	"	West	"	2	29.96	28	26	"	"	2	"
7	"	"	"	2	29.98	28	26	"	"	2	"
8	"	"	"	2	30.02	28	26	"	"	2	"
9	"	"	"	2	30.03	28	26	"	"	1	"
10	Sounding	N. E.	N. by E.	2	30.04	28	25	"	"	1	"
11	Flood	"	"	2	30.03	28	25	"	"	1	"
Mid.	"	N. E. by N.	"	2	30.02	28	25	o.c.	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,

Saturday December 18th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commenced Ed Curtis H.A.M.

Clear and pleasant. Light breeze from North. Standing into an anchorage in Singapore Harbor. Commanding Officer coming the ship. at 11.25 came to with port anchor in 5 fms chain in 4 fms water bottom muddy. Fort Canning Light bearing (p.c) N.W. by W. 1/4 W. and obelisk N.E. by N. Tide flood. Moonlight. Sea smooth. Latter part. at 12 Noon Navigator sounded around the ship, least depth found 4 fms. Banked fires in starboard boilers, hauled fires in port. Started distilling. Draft fwd 16.2, aft 17.6

D.D. Galloway
Lieut U.S.N.

From H to 8 A.M.

Pleasant weather. Partially cloudy. Light breeze from North. Port side. Hoisted out steam cutter. At 6 Moored ship to a buoy. Received a visit from Officer of H.M.S. "Satellite".

A.F. Jewett
Ensign U.S.N.

From 8 A.M. to Meridian.

Partly clear bright and warm hazy. Cumulus clouds. Light breeze from North. Cleaning ship inside and out. At 10 Commdg Officer left the ship and paid an official visit to H.M.S. "Satellite" returning at 10.30. At 11.30 A.M. Consul A.C. Studer Esq. came on board. Three sailing vessels and one steamer left harbor during watch. Riding between wind and flood tide. No appreciable current.

H.L. Townsend
Ensign U.S.N.

From Meridian to 4 P.M.

Cloudy with passing rain squalls. Light breeze from N.E. by N. and N. At 12.15 Consul left the ship. At 1.15 furled sails. At 2 Commdg Officer of H.B.M.S. "Satellite" paid an official visit to the ship. Engaged getting ready for painting ship outside. Tide flood. Distilling.

D.D. Galloway
Lieut U.S.N.

From 4 to 8 P.M.

Generally cloudy with rainy appearances. Clouds cumulus and nimbus. Light breeze from North. Tide flood. Painting ship outside. Finished at 6 o'clock. Served out clean hammocks: quarters for that purpose at 6.05 o'clock. Served out monthly money to crew. Riding between wind and ebb tide. Distilling.

H.L. Townsend
Ensign U.S.N.

From 8 P.M. to Midnight.

Cloudy and misty. Light breeze from N.E. Coming to flood between 9 and 10 o'clock. Riding to flood remainder of watch. At 8.05 banked fires shipped derricks and hauled fires in starboard boilers.

D.D. Galloway
Lieut U.S.N.

Examined and found to be correct.

A.V. Wadhams Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Anchor off Singapore.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			N. E.	North	2			29.99	79	79	75		o. c.	cum	0	S
2	"			"	"	2			29.98	79	79	75		"	"	0	"
3	"			"	"	1			29.98	79	79	75		"	cirr cum	0	"
4	"			"	"	2			29.98	79	78	75		"	"	0	"
5	"			N. E by N.	"	2			29.98	78	78	75		"	"	0	"
6	"			N E by E.	"	2			29.99	80	79	74		"	"	0	"
7	"			N by W.	"	2			30.01	82	76	74		b. c.	cirr cum	1	"
8	"			"	"	2			30.03	76	78	74		"	"	1	"
9	"			"	"	2			30.02	79	78	75		"	"	2	"
10	"			"	"	3			30.02	79	78	75		c.	cum	0	"
11	Ebb			North	"	2			30.03	80	80	75		b.	cirr	0	"
Noon.	"			N. N. E.	"	2			30.01	81	80	76		b. c.	cirr cum	1	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 400 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2300 "

Coal consumed during the preceding 24 hours, tons 1780 lbs.

Coal remaining on hand at Noon, 60 " 1870 "

P. M.											
1	Flood	N. E by N.	North	2	29.99	82	81	76	b. c.	cir cum	1	S
2	"	"	"	2	29.96	82	81	74	o. c.	cum	0	"
3	"	"	"	2	29.93	82	81	79	"	"	0	"
4	"	"	"	2	29.93	81	82	76	"	"	0	"
5	"	"	"	2	29.93	81	81	74	"	"	0	"
6	"	"	"	2	29.95	81	81	74	b. c.	cum	2	"
7	Ebb	N. W. by N.	"	2	29.98	81	81	74	"	"	4	"
8	"	W. by S.	"	2	30.00	80	80	76	"	"	3	"
9	"	N. N. W.	"	2	30.03	80	79	75	"	cum	5	"
10	"	N. W. by N.	"	2	30.03	79	78	75	"	"	5	"
11	Slowing	N. N. E.	"	2	30.03	78	78	74	"	"	5	"
Mid.	Flood	"	"	2	30.03	78	78	74	"	"	3	"

under the command of Commander T. F. Jewell, U. S. Navy,

Sunday December 19th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends at 4 A. M.
Pleasant. Light breeze from North. Riding to flood tide.

H. C. Gearing.
Lieut U. S. N.

From 4 to 8 A. M.
Generally cloudy with cumulus and cirro-cumulus clouds. Light breeze from North. Smooth sea with long ground swell to which ship was rolling slightly. Received in Pay. dept for issue to crew 140 lbs each of fresh beef and vegetables and 112 lbs fresh bread. Riding to flood tide. No current.

H. C. Gearing.
Lieut U. S. N.

From 8 A. M. to Meridian
Cloudy first part. Fair latter part. Light to gentle breeze from North. At 9 40 m. general inspection of ship and crew. At 10 30 m. Divine Service. By direction of Comdg officer Surgeon J. A. Hawke held Medical Survey on J. F. Gerbach, 1st app. 2 C, W. C. Hammond and A Rettig 1 C. apps, and recommended them to be transferred to the Civil Hospital of this port. Launch was disabled by the breakage of the valve stem guide of high pressure cylinder. Placed J. Barrett 1 C. app in single irons for two days for committing a nuisance by order of Comdg Officer. Ship riding between ebb and flood tide.

T. D. Galloway
Lieut U. S. N.

From Meridian to 4 P. M.
Cloudy and warm. Light breeze from North. Sent a liberty party on shore. Hoisted steam cutter. Sent to the Civil Hospital on shore A. Rettig 1 C. app, J. F. Gerbach, 1st app. 2 C, and W. C. Hammond, 1 C. app, with their bags and hammocks.

H. C. Gearing.
Lieut U. S. N.

From 4 to 8 P. M.
Fair and mild. Light breeze from N. E. Ship swinging to ebb at 6 30 m. Riding between ebb and flood tide at 8.

T. D. Galloway
Lieut U. S. N.

From 8 P. M. to Midnight
Warm and fair. Light breeze from North. at 9 0 m. Slack water. Swing to flood at 10 30 m.

H. C. Gearing.
Lieut U. S. N.

Examined and found to be correct.

A. V. Wadhams Lieut U. S. N. Navigator.

LOG of the UNITED STATES Steamer "Essex" , 3d Rate,

At Anchor off Singapore.

Hour.	Knots.	Miles.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
			Ships	Head													
A. M.																	
1	Flood			N. E.	North	2			30.012	82	82	82		b c.	cumu nimb.	1	S.
2	"			"	"	2			29.994	82	82	82		"	"	1	"
3	"			"	"	2			29.96	82	82	82		o c.	"	0	"
4	"			"	"	2			29.95	82	82	82		"	"	0	"
5	"			N. E. by N.	"	2			29.96	79	78	78		"	"	0	"
6	"			"	"	2			29.96	79	79	79		"	"	0	"
7	"			N. by E.	Calm	0			30.00	79	79	79		"	"	0	"
8	Ebb			N. N. W.	"	0			30.04	79	78	78		"	"	0	"
9	"			N. by W.	N. by W.	1			30.04	80	79	76		b c	cir cumu	2	"
10	"			N. W.	North	1			30.02	80	79	76		"	"	2	"
11	"			"	"	1			30.02	80	79	76		"	"	2	"
Noon.	"			"	"	1			30.01	81	79	76		"	"	2	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 430 gallons.

Water Distilled during the preceding 24 hours, 520 "

Water remaining on hand fit for use at Noon, 2400 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 60 " 1470 "

P. M.											
1	Flood	N. N. W.	North	1	29.98	82	81	76	b c.	cir cumu	2 S.
2	"	"	N. W.	1	29.95	83	82	79	"	"	2 "
3	"	N. by W.	W. by W.	2	29.93	83	82	79	c.	"	0 "
4	"	East	S. by E.	2	29.93	82	82	79	"		0 "
5	"	E. by N.	"	2	29.93	82	81	79	o c.	cumu nimb	0 "
6	"	N. E.	"	2	29.95	82	81	76	c.	cir cumu	0 "
7	"	"	N. N. W.	2	29.96	81	80	75	"	"	0 "
8	"	N. N. E.	"	2	29.98	80	79	75	"	"	0 "
9	Ebb	N. W. by N.	"	2	30.00	79	79	75	b c.	cumu	0 "
10	"	"	"	2	30.00	78	78	75	none	b c	10 "
11	Flood	N. by E.	"	2	30.00	78	78	75	"	"	10 "
Mid.	"	"	"	2	30.00	78	78	75	"	"	10 "

under the command of Commander T. F. Jewell U. S. Navy,

Monday December 20th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences 1st Watch A. M.
Cloudy, pleasant weather. Light breezes from North. Riding to the flood.

P. T. Walling
Lieut U. S. N.

From 4 to 8 A. M.
Cloudy and mild. Light airs from North and calms. Ship riding to flood. No current

Lieut U. S. N.

From 8 A. M. to Meridian.
Warm and cloudy. Light airs from North. Riding to ebb tide. At 9 to count to General Quarters. Divisions reported as follows: 1st 5-2nd; 2d 3-4th 5, 3d 2-3d 3s, Sail 5-1st 5, Powder 4-2nd 10s, Engr 1-1st 5, Marines 1-1st 5. Secured at 10 after exercise. Absentees at quarters F. J. Buchanan, S.A. 2 C. A. Howard 9a. s c. J. Haldron 2 C. F. C. Karr C. Ker N. Lear, O. Hate and J. J. McKenna 1. c. a. All the above named men except N. Lear O. Hate, returning to the ship during crater. C. Karr C. Ker being brought off by a shore police officer whose boat fine $1.00 was ordered paid by the Comdr Comdg. Received an official visit from Lieut-Comdr R. H. Pope R. N. Comdg H. B. M. S. Zephyr. Sent steam cutters engine ~~and 2 oars of boat cradle~~ to shore for repairs.

H. B. Seaning.
Lieut U. S. N.

From Meridian to 4 P. M.
Cloudy, pleasant weather. Light airs from North and N. W. Light breezes from West to S. E. Commanding Officer paid official visit to authorities on shore. Two steamers, an chored and three left harbor. Sent a liberty party on shore.

P. T. Walling
Lieut U. S. N.

From 4 to 8 P. M.
Cloudy and pleasant. Light N. N. W. breeze. Quarters at 6 and turned in clean hammocks.

H. B. Seaning.
Lieut U. S. N.

From 8 P. M. to Midnight.
Clear pleasant weather. Light breezes from N. N. W. at 8.30 Riving to flood. Two steamers came in and anchored.

P. T. Walling
Lieut U. S. N.

Examined and found to be correct.

A. T. Wadhams
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Anchor off Singapore

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky; in 10ths.	State of the Sea.
			Ships	Head.					a								
A. M.															cir		
1	Flood			N. E. by N.	North	2			30.00					b. cu.	cir	4	S
2	"			N. E.	"	2			29.98					"	"	8	"
3	"			"	"	1			29.95					"	"	8	"
4	"			"	"	1			29.95					"	cir cum	6	"
5	"			"	"	1			29.95					"	"	5	"
6	"			N. E. by N.	"	2			29.95					"	"	5	"
7	"			N. N. E.	"	2			29.98					"	"	6	"
8	Swinging			"	"	2			29.99					"	"	5	"
9	Ebb			"	N. W.	2			30.01					b. c.	cum	2	"
10	"			"	"	1			30.02					"		1	"
11	"			"	W. N. W.	1			30.00					"	cir cum	4	"
Noon.	"			"	"	1-2			30.00					"	"	9	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ' "
Longitude by D. R. ° ' "
Latitude by observations of ⊙ ° ' "
Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.: Latitude by ° ' "
Longitude by ° ' "

Position at 8 P. M.: Latitude by ° ' "
Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 420 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1980 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 60 " 1070 "

P. M.										
1	Ebb	S. S. W.	S. E.	1	29.98	b. c.	cir cum	4	S
2	"	S. W.	S. W.	2	29.94	"	"	5	"
3	"	"	"	2	29.93	"	"	5	"
4	"	"	"	2	29.93	"	"	5	"
5	Swinging	S. S. W.	"	2	29.93	"	"	4	"
6	Flood	East	W. S. W.	1	29.93	"	cir	4	"
7	"	N. E.	"	1	29.94	b. c.	"	6	"
8	"	"	North	1	29.99	"	"	2	"
9	"	"	"	1-0	30.00	"	"	8	"
10	"	"	"	1-0	30.00	"	cir cum	6	"
11	"	"	"	1-0	30.00	"	"	3	"
Mid.	"	"	"	1-0	30.00	b. c.	"	2	"

under the command of Commander T. F. Jewell, U. S. Navy,

Tuesday December 21st, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Ends.

Clear and pleasant. Light breeze from North. Flood tide.

C. A. T. Dashiell
Ensign U. S. N.

From 4 to 8 A. M.

Warm and hazy over the water. Light breeze from North. Began to swing to ebb tide at 7.10. Still swinging at 8 a. Nicholas Lear, B. Mate, returned to the ship 24 hours overtime.

H. McClymonds
Lieut U. S. N.

From 8 A. M. to Meridian.

Clear and warm. Light airs and breezes from N. W. and W. N. W. At 9 a. called all hands and exercised at shifting topsails. Absent without leave John Daley Lds. J. F. Emery, P. M. J. Hulen, P. M. H. Everleph 6 and 6 and J. F. Link S. A. 2 6. J. P. Link, Sea. app. 2 6, was brought on board by the police. By order of Deputy Officer prisoners J. Noriega, Lds, and J. Barrett, I. C. app, their terms of punishment having expired.

B. F. Lee
Lieut U. S. N.

From Meridian to 4 P. M.

Clear and warm. Light breeze from N. E. first hour of watch, then from S. W. Ebb tide.

C. A. T. Dashiell
Ensign U. S. N.

From 4 to 8 P. M.

Clear warm weather. Light breezes from S. W. Light airs from W. S. W. and North. By order of Deputy Officer confined A. T. Bibens I. C. app, in double irons for five days for disobedience of orders at 5. to swing to flood.

B. F. Lee
Lieut U. S. N.

From 8 P. M. to Midnight.

Clear and warm. Light airs from North. Flood tide.

C. A. T. Dashiell
Ensign U. S. N.

Examined and found to be correct.

A. V. Mackenzie
Lieut Navigator.

LOG of the UNITED STATES Steamer "Essex" 3d Rate,

At Anchor off Singapore

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
			Ships Head						a								
A. M.																	
1	Flood			N. by E.	North	1			30.00	84	84	75		o.c.	nimb	0	1
2	"			N.E. by N.	"	1			30.00	84	84	75		b.c.h.	cim	2	"
3	"			N.E.	"	1			29.99	84	84	75		b.c.	"	5	"
4	"			"	"	1			29.98	84	84	75		b.c.	"	1	"
5	"			N.E. by E.	"	2			29.96	84	84	75		o.c.r.	"	0	"
6	"			"	"	2			29.96	84	84	75		b.c.r.	cir	3	"
7	"			N.E.	N.N.E.	1			29.98	84	84	75		b.c.	"	2	"
8	"			"	"	1			30.00	84	84	75		"	"	8	"
9	Slanting			N.W. by W.	"	2			30.02	80	79	76		b.c.h.	"	4	"
10	"			W.S.W.	"	2			30.02	81	80	76		b.c.	cir cim	8	"
11	"			"	"	2			30.01	82	82	78		"	"	2	"
Noon.	"			S.W.	S.E.	2			30.00	83	82	78		"	"	2	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 420 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1560 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 60 " 670 "

P. M.										
1	Ebb	S.W. by S.	S.E.	1	29.98	82	79	b.c.	cir cim	5
2	"	"	"	1	29.95	82	79	"	"	2
3	Slack	"	"	1-2	30.01	82	83	"	"	5
4	"	East	E. by S.	2	29.91	82	84	"	"	5
5	"	E. by N.	N.E.	1-2	29.98	84	83	"	"	6
6	"	N.E. by E.	"	2	29.93	82	81	"	"	6
7	"	"	"	2	29.98	80	79	"	"	6
8	"	"	"	2	29.95	80	79	"	"	5
9	Flood	"	North	2	29.98	79	78	"	cim nimb	8
10	"	"	"	2	30.00	79	78	"	"	6
11	"	N.E.	"	2	30.00	79	78	"	"	6
Mid.	"	N.E. by N.	"	2	30.00	79	78	"	"	4

under the command of Commander T. F. Jewell, U. S. Navy,
Wednesday December 22, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M.
Cloudy. Clouds cumul. & cumu. Lightning to S.W. & W. Passing showers 2 hour. Light airs from North. Riding to flood. Moon showing, occasionally last hour.
W. E. Goundstone
Ensign U.S.N.

From 4 to 8 A.M.
Passing showers first two hours; clearing last two. Light breezes from North. Light airs from N.N.E. Received in Dept of Provisions & clothing & issued to Ships Company 40 lbs fresh beef, 40 lbs fresh vegetables & 112 lbs fresh bread. Dutch man-of-war Prinz Hendrik came out of New Harbor & anchored half a mile South of this ship.
Dent
Asst U.S.N.

From 8 A.M. to Meridian
Clear & pleasant. Light breeze from N.N.E, last hour from S.E. At 8 hrs 40 m to swing to the flood. At 9 hrs finished. At 9.20 called all hands & exercised at shifting topsails. Then loosed sails. At 9.40 sent an officer to pay visit of courtesy to Dutch man-of-war Prinz Hendrik. Commanding officer paid an official visit to same vessel.
A. F. Scranton
Ensign U.S.N.

From Meridian to 4 P.M.
Partly clear, pleasant with cir: cumu clouds. Light airs to breezes from S.E. shifting to E. by S. last hour. At 1 o'clock furled sail. Cleaning bilges in Engineers department. An English steamer came in. Riding to ebb tide first part. Took coal afterwards. Sent liberty men ashore.
W. E. Goundstone
Ensign U.S.N.

From 4 to 8 P.M.
Clear & warm. Light breeze from N.E. Received official visit from an officer of the man-of-war "Prinz Hendrik".
A. F. Scranton
Ensign U.S.N.

From 8 P.M. to Midnight
Cloudy with rainy appearances. Clouds cumu & cumuli. Starlight. Light breeze from North. Smooth sea with ground swell. Ship rolling slightly. Called sea cadet on board 1/2 hours overtime, placed him under electric charge till sober. Riding to flood. No appreciable current.
W. E. Goundstone
Ensign U.S.N.

Examined and found to be correct.

S. P. Williams. Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex" , 3d Rate,

at Anchor, off Singapore.

Hour.	Knots.	Patent Log.	Heading of Ship's Head	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a								
1	Flood		N. E.	North	2				29.94	79	79	76		b.c.p.	cumu	2	S.
2	"		"	"	2				29.94	79	79	76		b.c.	"	4	"
3	"		"	N. N. E.	2				29.94	79	79	75		"	"	1	"
4	"		"	"	3				29.94	79	78	74		"	"	2	"
5	"		"	"	3				29.94	78	78	75		p.c.r.	cumu	0	"
6	"		"	"	1				29.96	78	78	75		"	"	0	"
7	"		"	"	1				29.97	78	77	76		"	"	0	"
8	"		N. N. E.	"	1				30.01	78	78	76		p.c.d.	cir cumu	0	"
9	"		North	North	2				30.03	79	78	76		"	"	0	"
10	Slonging Ebb		W. by S.	"	2				30.03	79	78	76		"	"	0	"
11			W. S. W.	"	2				30.01	80	79	77		b.c.	cir cumu	1	"
Noon.	"		West	"	2				30.00	80	79	77		c.p.	cumu	0	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ' "
Longitude by D. R. ° ' "
Latitude by observations of ⊙ ° ' "
Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.: Latitude by ° ' "
Longitude by ° ' "

Position at 8 P. M.: Latitude by ° ' "
Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 440 gallons.

Water ———— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1160 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 133 " 38 "

P. M.											
1	Ebb	W by S.	North	2	29.94	80	79	77	o.c.	cumu	0
2	Slonging	S. E.	N. E.	2	29.95	81	80	79	o.c.r.	"	0
3	Flood	N. E. by E.	"	2	29.93	79	78	76	"	"	0
4	"	"	"	2	29.92	79	77	75	"	"	0
5	"	"	"	2	29.93	79	79	76	b.c.r.	"	1
6	"	"	"	2	29.95	79	79	75	"	"	1
7	"	"	"	2	29.96	79	78	75	b.c.	cumu	4
8	"	"	"	3	29.98	79	78	75	b.c.l.	"	7
9	"	N. E.	North	2	29.99	79	77	75	"	cir cumu	8
10	"	"	"	2	29.99	79	77	75	"	"	8
11	"	N. E. by N.	"	2	29.99	79	76	74	"	"	8
Mid.	"	"	"	2	29.99	79	76	74	"	cir cumu	7

under the command of Commander T. F. Jewell, U. S. Navy,
Thursday December 25th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From 12 M. to 4 A. M.
Cloudy with light passing showers. Little breeze from North. Lightning in the S. along horizon. Tide flood.

T. F. Galloway
Lieut U. S. N.

From 4 to 8 A. M.
Overcast and cloudy with rain during the entire watch; occasionally very light. Flood tide. Light breeze from N. N. E. at 7:30 coal lighter came alongside.

C. A. Dechaine
Ensign U. S. N.

From 8 A. M. to Meridian
Cloudy with drizzling rain first two hours and shaking showers last two. Light breeze from North. Engaged in coaling ship. By order of Cmd'g Officer Released Com. Smith Sea from restrip charge and by same authority placed Wright Tompkins U. S. M. C. under restrip charge for being under the influence of liquor. Received an official visit from Cmd'g Officer of Dutch man-of-war Prins Hendrik. At end of watch finished coaling ship having received a total of 72 tons and 768 lbs on board.

F. J. Boerum
Ensign U. S. N.

From Meridian to 4 P. M.
Overcast with passing showers. Light breeze from North and N. E. Engaged cleaning ship. Placed A. Campbell Barber in double irons for 6 five days for disobedience of orders by order of Cmd'g Officer. At 2 P. M. Lighting to flood.

T. F. Galloway
Lieut U. S. N.

From 4 to 8 P. M.
Cloudy and rainy first part clearing afterwards. Cloudy and rainy. Light to gentle breeze from N. E. Smooth sea with ground swell from S. E.

C. C. Vaquelin
Ensign U. S. N.

From 8 P. M. to Midnight
Fair and clear. Light airs from North. Ship riding to flood and wind. Lightning to the S. W.

T. F. Galloway
Lieut U. S. N.

Examined and found to be correct.

F. F. Wadsworth Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex" , 3d Rate,

at Anchor off Singapore

Hour.	Knots.	Tenths.	Reading Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.			Ships Head												cir		
1	Fleet		N. E by N.	North	2				29.98	74	76	74		b.cu	cu cir	4	S.
2		"		"	2				29.96	74	74	73		"	"	4	"
3		"	N. E.	"	2				29.95	74	74	74		"	"	3	"
4		"	"	"	2				29.94	74	74	73		"	"	5	"
5		"	"	"	2				29.95	74	74	73		b.c.	"	6	"
6		"	"	"	2				29.95	78	76	73		"	cir	4	"
7		"	"	"	2				29.96	79	74	73		"	cir cu cu	8	"
8		"	"	"	2				29.99	79	76	73		"	.	8	"
9		"	N. N. E.	N. N. E.	4				30.01	79	76	78		"	.	2	"
10		"	North	N. by E.	3-4				30.01	80	79	74		"	.	4	"
11	Ebb		N. W.	North	4				30.00	81	81	76		.	.	6	"
Noon.		"	W. N. W.	"	4				30.00	82	81	76		.	.	5	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ′ ″
Longitude by D. R. ° ′ ″
Latitude by observations of ⊙ ° ′ ″
Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m. Latitude by ° ′ ″
Longitude by ° ′ ″

Position at 8 P. M. Latitude by ° ′ ″
Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 430 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 7460 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 132 " 2110 "

P. M.										
1	Ebb	W. by N.	North	4	29.98	82	81	76	b.c.	cu cu cir	2	S.
2	"	N. W.	"	4	29.95	82	81	76	"	"	1	"
3	Flood	N. E. by N.	"	3	29.95	82	81	74	b.c.	"	0	"
4	"	N. E.	"	3	29.94	81	80	74	"	"	0	"
5	"	"	"	3	29.94	81	80	74	b.c.	cir	4	"
6	"	"	"	3	29.96	80	79	74	o.c.	cu cu cir	0	"
7	"	N. E. by E.	"	3	29.97	79	78	74	"	"	0	"
8	"	N. E.	"	3	30.00	79	77	75	"	"	0	"
9	"	N. E. by E.	"	3	30.00	79	77	75	cu.	"	0	"
10	"	N. E.	"	3	30.02	80	79	75	"	"	0	"
11	"	"	"	2	30.00	80	79	75	"	"	0	"
Mid.	"	"	"	2	30.01	79	78	74	"	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,

Friday December 2nd, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends H. A. M.

Clear overhead. Hazy around horizon. Light breze from North. Riding to flood tide.

N. McGaring
Lieut U. S. N.

From H. to 8. A. M.

Partly clear with cumulus clouds. Pleasant. Light to gentle breze from North. at 5 a.m. made colors with Dutch Smack "Prins Hendrik" getting underway. at 5 a.m. she left the Harbor. Received in Pay Dept for issue to crew 140 lbs each of fresh beef & vegetables & 1/2 lbs bread. Cleaning bilges in Engineer's Department.

D. C. Loomis
Asst Surgn U. S. N.

From 8 A. M. to Meridian

Cloudy & pleasant. Moderate breze from N. N. E. & North. Engaged setting up main rigging. Cleaning bilges & refitting. at 11.30 Comdg Officer left the ship to pay official visits.

E. D. Galloway
Lieut U. S. N.

From Meridian to 4. P. M.

Cloudy & pleasant. Moderate to gentle breze from North. at 1.00 began swinging to flood, around to tide & wind at 2.10. at 1.00 Had Battalion Drill. Finished setting up lower rigging & cleaning bilges. Sent one shore to be refitted, spare, circulating & feed pump rods, old feed pump piston. Joseph Fobler, O.S. 2 hours overtime, was brought off to ship by shore police. Paid one dollar for his delivery & placed him under sentry's charge to cool off. Commanding officer returned to ship at 3.50.

N. McGaring.
Lieut U. S. N.

From 4. to 8. P. M.

Overcast & warm. Gentle breze from North. The Corporal Secty paid official visit to the ship also Mr Wayne Aide to Governor & the Consul. at 5.00 started fires in boilers 1 & 3 for distilling. Tide flood. Ship riding between tide & wind.

E. D. Galloway
Lieut U. S. N.

From 8 P. M. to Midnight

Cloudy. Light breze from North. Riding to wind & flood tide. at 11 p.m. began distilling into the tanks.

N. McGaring.
Lieut U. S. N.

Examined and found to be correct.

A. T. Madison Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Anchor off Singapore

Hour.	Knots.	Ten ths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.			Ship's Head														
1	Flood			N. E.	North	2			30.004	79	84			Overcast	cumulus	0	Smooth
2	"			"	"	2			29.98	78	84			P.C.	"	0	"
3	"			"	"	2			29.98	79	84			"	"	0	"
4	"			"	"	2			29.94	80	84			"	"	0	"
5	"			"	"	2			29.98	79	84			"	"	0	"
6	"			"	"	2			29.99	84	84			"	"	0	"
7	"			N. E. by E.	"	2			30.01	84	84			F.C.	cir cumu	0	"
8	"			N. E.	"	2			30.03	79	84			"	"	3	"
9	"			"	"	2			30.04	80	79			"	"	3	"
10	"			N. by E.	"	3			30.05	80	80			"	"	3	"
11	Swinging			N. W. by W.	N. N. E.	3			30.03	80	81			"	cirr cumulus	0	"
Noon.	Ebb			W. by S.	"	3			30.02	81	81			"	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, . knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 420 gallons.

Water Distilled during the preceding 24 hours, 1480 "

Water remaining on hand fit for use at Noon, 1800 "

Coal consumed during the preceding 24 hours, 1 tons 2185 lbs.

Coal remaining on hand at Noon, 130 " 2165 "

P. M.										
1	Ebb	West	N. by W.	3	30.00	82	81	F.C.	cir cumu	1
2	"	W. N. W.	"	3	29.98	82	81	"	"	1
3	"	N. W.	North	3	29.99	82	82	"	"	2
4	Flood	N. by E.	"	3	29.94	83	83	"	"	2
5	"	N. E. by N.	N. E. by N.	3	29.94	83	82	"	Clr	4
6	"	N. E.	"	2	30.00	82	81	"	"	6
7	"	N. E. by E.	"	2	30.03	82	81	"	cir	2
8	"	N. E.	"	2	30.05	80	80	"	Clr	8
9	"	"	"	2	30.07	80	80	"	cir	9
10	"	"	"	2	30.06	80	79	"	cir	9
11	"	"	"	2	30.06	79	84	"	cir cumu	8
Mid.	"	"	N. N. E.	2	30.05	79	84	"	"	8

under the command of Commander T. F. Jewell, U. S. Navy,

Saturday December 25th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Cutter H. A. M.

Christmas, opens cloudy and cool. Light breeze from North. Riding to the flood. Distilling.

B. F. Waeving
Lieut U. S. N.

From H. to 8. A. M.

Overcast and warm first part, clearing latter part. Gentle breeze from North. At 7.00, crossed top gallant yards and loosed sails. Distilling.

C. D. Gleaves
Lieut U. S. N.

From 8 A. M. to Meridian

Cloudy and pleasant. Gentle breeze from North to N.N.E. Riding to flood tide. Tide 10th - At 11th around to ch. At 9.30, Quarters for inspection. Received fresh pods and fish sent on shore to be refitted. At 3/4 to 12 M. U.S.S. "Satellite" made signal to this ship by Intricate Signal Code U. G. L. V. C. P. B. L. F. B. J. K. and was answered by R. T. J. L. L. M. F. B. J. L. Distilling.

H. H. Gearing
Lieut U. S. N.

From Meridian to 4 P. M.

Cloudy and pleasant weather. Gentle breezes from North and E. by N. By order of Commdg Officer Wm Branagan C. Yeo in double irons for five days for attempting to leave ship without authority. Sent a liberty party ashore. Distilling.

B. F. Waeving
Lieut U. S. N.

From 4 to 8 P. M.

Fair and warm. Light breeze from N. E. by N. Riding to flood tide. Distilling.

H. H. Gearing
Lieut U. S. N.

From 8 P. M. to Midnight

Clear pleasant throughout. Light breezes from N. E. by N. and N. N. E. By order of Commdg Officer confined Albert Bingham, L. C. aft, in double irons for safe keeping.

B. F. Waeving
Lieut U. S. N.

Examined and found to be correct.

A. V. Wadhams Lieut U. S. N. Navigator.

LOG of the UNITED STATES Steamer "Essex" , 3d Rate,

at Anchor off Singapore

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
			Ships Head														
A. M.																	
1	Flood			N.E.by.N.	N.N.E.	2			30.02	82				S.	Cumu	10	S.
2	"			"	"	2			30.02	82				"	"	10	"
3	"			"	"	2			30.0	82				"	"	10	"
4	"			N"E.	"	2			30.00	82				"	Cumu	10	"
5	"			N.E.by.E.	"	1			30.00	82				b.cu.	Cumu Str	9	"
6	"				Calm	0			30.02	82				"	"	8	"
7	"			"		0			30.02	82				"	"	8	"
8	"			N"E.	North	1			30.06	82				"	"	8	"
9	"					1			30.02	80	79	76		b.c.	cir	6	"
10	"				"	1			30.02	80	79	76		"	Cumu	3	"
11	Squally			W.N.W.	N"E.	2			30.06	81	81	76		"	cir	2	"
Noon.	Ebb			W.S.W.	N"E.	2			30.03	81	81	76		"	Cumu	1	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: { Latitude by D. R. ° ' "
Longitude by D. R. ° ' "
Latitude by observations of ⊙ ° ' "
Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. { Latitude by ° ' "
Longitude by ° ' "

Position at 8 P. M. { Latitude by ° ' "
Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ' "

Water expended during the preceding 24 hours, 400 gallons.

Water Distilled during the preceding 24 hours, 1650 "

Water remaining on hand fit for use at Noon, 30650 "

Coal consumed during the preceding 24 hours, 1 tons 1495 lbs.

Coal remaining on hand at Noon, 129 " 670 "

P. M.										
1	Ebb	West	North	2	30.02	82	81	76	b.c.	cir Cumu	1	S.
2	"	W.by.W.	"	2	30.00	82	81	76	"	"	2	"
3	"	SW.	"	2	30.00	80	79	76	o.c.v.	Cumu	0	"
4	Squally	N.W.	West	0-1	30.00	80	80	76	"	"	0	"
5	Flood	N.N.E.	North	0-1	30.00	80	79	76	" o.c.	Cumu	0	"
6	"	N.E.by.N.	"	1	30.02	80	79	76	"	"	0	"
7	"	N.E.by.E.	N.N.E.	2	30.03	80	79	76	S.	Cir Cumu	0	"
8	"	N.E.		2	30.05	80	79	76	"	"	0	"
9	"	"	N.E"N.	2	30.02	80	79	76	"	"	0	"
10	"	"	"	2	30.00	80	79	76	"	"	0	"
11	"	"	"	1	30.05	80	79	76	"	"	0	"
Mid.	"	"	"	1	30.05	80	79	76	"	"	0	"

under the command of Commandr T. F. Jewett, U. S. Navy,

Sunday December 26th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences Cutie & A M.
Clear & pleasant. Light breze from N. N. E. Flood tide. Listening.

A. F. Scott
Ensign U. S. N

From 4 to 8 A. M.
Hazy & warm. Light N. N. E. airs & calm last two hours
Received & issued to crew 140 lbs fresh beef, 140 lbs vegetables & 117 lbs bread.

H. L. Waring
Lieut U. S. N

From 8 A. M. to Meridian
Pleasant weather, clouding over & threatening rain. At 9:30 Fudg Officer inspected ship with crew at quarters. Absent without leave H. Falck Jr Fr Wm Richards, Seaman 2 C. Jr. F. Cunningham, Ords N. E. Boyle P. M. & W. P. Murray, B. Baker. By order of Fudg Officer released a Campbell, Barker & A. T. Birkett, 1 C. Apps, sent a liberty party. Held Divine Service, a Priest from shore officiating. Hayed Pipes.

D. L. Waring
Lieut U. S. N

From Meridian to 4 P. M.
Weather cloudy & raining at intervals during last hour. Light wind from North during first three hours, then light airs from East & So. Ede tide. Ship began coaling at 2.30. By direction of Commander placed D. Hudson, B. M., in double irons for insolence to officer of deck

A. F. Scott
Ensign U. S. N

From 4 to 8 P. M.
Cloudy & pleasant. Light airs from North. Light breeze from N. N. E. Wm Richards, Seaman 2 C, returned on board 3 hours overtime

D. L. Waring
Lieut U. S. N.

From 8 P. M. to Midnight
Weather cloudy. Light breze from N. E. by E. Flood tide

A. F. Scott
Ensign U. S. N

Examined and found to be correct.

A. V. Wadhams
Lieut Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Anchor off Singapore

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
				Ships Head.													
A. M.									a								
1	Flood			N. E by N.	North	2			30.02	79	78	76		b.c.	cum	1	S.
2	"			"	"	2			30.03	79	79	76		"	"	1	"
3	"			"	"	1-2			30.00	79	79	76		"	"	1	"
4	"			N. E.	"	2-1			30.02	79	78	76		b.c.	"	0	"
5	"			"	"	2			30.03	79	78	76		"	"	0	"
6	"			"	"	2			30.03	78	78	75		b.c.	cir cum	1	"
7	"			"	"	1			30.05	78	78	75		"	"	3	"
8	"			"	"	1			30.04	79	78	75		"	"	3	"
9	"			"	"	2			30.04	80	79	76		"	cum nimb	4	"
10	"			N. E by N.	N. E by E.	2			30.04	81	81	77		"	cum cum nimb	3	"
11	Slonging Ebb			N. by E.	"	2			30.04	81	82	78		b.cd.	"	3	"
Noon.				W. N. W.	N. W. by N.	2			30.06	81	82	78		b.c.	"	2	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "
Longitude by D. R. ° ' "
Latitude by observations of ⊙ ° ' "
Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.: Latitude by ° ' "
Longitude by ° ' "

Position at 8 P. M.: Latitude by ° ' "
Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 450 gallons.

Water ——— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2650 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 129 " 270 "

P. M.											
1	Ebb	W. S. W.	W. N. W.	2	30.03	82	82	78	o.c.r.	cum nimb	0	S.
2	"	S. W. by W.	"	2	30.00	82	81	78	"	"	0	"
3	"	S. W.	South	2	29.99	82	81	78	b.c.d.	cir	3	"
4	"	S. W. by W.	Variable	2	29.99	81	80	77	"	"	2	"
5	Slonging Flood	North	N. N. E.	2	29.99	81	80	75	b.c.	cir cum	2	"
6		N. E.	"	2	30.00	81	80	75	"	"	3	"
7	"	E. N. E.	"	1	30.01	81	80	76	b.c.	cum cir	8	"
8	"	N. E. by E.	"	1	30.04	80	80	76	"	"	8	"
9	"	"	"	2	30.05	80	80	76	b.c.	cum nimb	9	"
10	"			2	30.06	79	78	76	"	"	2	"
11	"	N. E. by N.	N. by E.	2	30.05	79	78	76	b.c.d.	"	0	"
Mid.	"	"	"	2	30.05	79	79	76	o.c.r.	nimb	0	"

under the command of Commander T. F. Jewell, U. S. Navy,

Monday December 27th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From Meridian to 4 A.M.

Commences with Cutter & A.M.

Cloudy & pleasant. Sounds cumm & unsk. Light airs to breeze from North. Riding to flood. No appreciable current. Smooth sea with easy rolling motion.

A. Pennington
Ensign U. S. N.

From 4. to 8 A.M.

Cloudy weather. Light airs to gentle breezes from North. Riding to flood. Four steamers anchored & one left Harbor. W. P. Murray, D. Baker, returned 24 hours overtime.

B. F. Keating
Ensign U. S. N.

From 8. A.M. to Meridian

Generally cloudy with light breeze from N. E. to N. W. Flood tide. Regan swinging to ebb at 10.30. At 9.30 called all hands & Cleared Ship for action. At 10.08 went to General Quarters. At 10.24 Secured. Hoisted & Sailing launch again leaving her rigged out.

A. F. Fechteler
Ensign U. S. N.

From Meridian to 4 P.M.

Overcast cloudy & raining first part. drizzling afterwards with clearing indications. Light breeze from W. S. W. first part South 2d hour variable last hour. Overhauling chain cables. Cleaning Sailing Launch and 2d Cutter. Sent ashes away in ash lighter, 78 buckets. Riding to ebb, no appreciable current.

A. C. Pennington
Ensign U. S. N.

From 4. to 8 P.M.

Clear & pleasant. Light breeze from N.N.E. at 6 P.M. moving to flood.

A. F. Fechteler
Ensign U. S. N.

From 8 P.M. to Midnight

Generally cloudy, drizzling & four & raining last hour. Sounds cumm & unsk. Light breeze from N.N.E. & N. by E. Sounds swell from S.W. & E. Ship rolling slightly. Riding to flood. No current appreciable.

A. C. Pennington
Ensign U. S. N.

Examined and found to be correct.

A. V. Wadhams
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

at Anchor off Singapore

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
				Ships Head													
A. M.																	
1				N.E. by N.	North	2			30.05	78	78	75		o.c.r.	cirr.	0	S.
2		"		N.N.E.	"	2			30.04	78	78	75		"	"	0	"
3		"		North	"	2			30.02	76	78	74		"	"	0	"
4		"		"	N.N.W.	2			30.00	76	78	74		"	"	0	"
5		"		N.N.E.	N.W.	2			30.01	76	76	74		o.cp.	"	0	"
6		"		N.E. by N.	"	2			30.01	76	76	74		b.c.	cirr. cum.	1	"
7		"		N.E.	"	1			30.01	76	76	74		"	"	2	"
8		"		N.E.	North	1			30.03	77	78	74		"	cirr. cum.	6	"
9		"		"	"	2			30.04	79	79	74		"	"	6	"
10		"		N.E. by N.	"	2-3			30.05	80	79	75		"	"	5	"
11		"		"	N.N.E.	2-3			30.05	80	80	75		"	"	5	"
Noon.		"		N.E.	"	2-3			30.03	81	80	76		b.c.d.	cirr. cum.	4	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ' "
Longitude by D. R. ° ' "
Latitude by observations of ⊙ ° ' "
Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.: Latitude by ° ' "
Longitude by ° ' "

Position at 8 P. M.: Latitude by ° ' "
Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 400 gallons.

Water ———— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2250 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 128 " 2110 "

P. M.												
1	Ebb	W.N.W.	N.N.E.	0	29.95	80	80	76	b.c.	cir. cum.	3	S.
2	"		"	0	29.96	80	80	76	"	cirr.	1	"
3	"	W. by N.	"	2	29.94	81	81	76	"	"	5	"
4	Flood	N.N.E.	"	2	29.93	81	81	76	"	cum.	3	"
5	"	"	"	2	29.94	81	80	76	"	"	2	"
6	"	N.E.	"	2	29.95	80	79	75	b.c.p.	cir. cum.	2	"
7	"	"	"	2	29.97	79	79	75	b.c.	cum.	2	"
8	"	"	"	2	29.99	78	78	75	"	"	2	"
9	"	N.E. by E.	North	2	30.01	78	78	75	"	"	6	"
10	"	"	"	2	30.03	78	78	75	"	"	2	"
11	"	"	"	2	30.03	78	78	75	"	"	2	"
Mid.		"	"	2	30.03	78	78	75	"	"	2	"

under the command of Commander T. F. Jewell, U. S. Navy,

Tuesday December 27th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M.
Overcast with continuous heavy rain. Light breeze from North

From 4 to 8 A. M.
First part of watch cloudy and rainy then clear and pleasant. At 7:45 called all hands and loosed sail. Riding to flood.

E. D. Galloway
Lieut U. S. N.

From 8 A. M. to Meridian
Partly clear, drizzling last hour. Cumulus clouds. Light to gentle breeze from North to N.N.E. Found swell. At 9:30 went to quarters for inspection. H.M. Ships "Satellite" and "Zephyr" left the Harbor. At 10 o'clock Called away boats armed and Equipped. Ready as follows: Steam Cutter 6m 20s Sailing Cutter 9m, 5s. 1st Cutter 7m 45s; 2d Cutter 5m 15s; Cockswain Boat 6m 15s. Finished boat drill at 11:30, Furled sail. Riding to flood tide. No current

A. T. Jocelyn
Ensign U. S. N.

From Meridian to 4 P. M.
Partly cloudy but pleasant. Light, decreasing to light breeze from N.N.E. A Board met at 1:00 for the examination of Apprentices and adjourned at 3:45.

F. J. Forms
Ensign U. S. N.

From 4 to 8 P. M.
Partly clear pleasant passing shower 2d Lieut. Cumulus, cumulo nimbus clouds. Light breeze from N by E. at 5th sent down topgallant masts. Found swell from E. to which ship rolled uneasily. To midnight flood. No current.

H. H. Townsley
Ensign U. S. N.

From 8 P. M. to Midnight
Clear and calm. Light breeze from North. Moderate sea running in the Harbor. Moon set at 8:20.

E. D. Galloway
Lieut U. S. N.

Examined and found to be correct.

A. T. Mahan
Lieut U.S.N. Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Anchor off Singapore

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			N. E. by E.	North	1			30.0	79	78	75		b cu.	cir cumu	8	S
2		"		N. E. by N.	"	1			29.98	79	77	74		"	"	8	"
3		"		"	"	1			29.96	79	77	74		"	cir-str	9	"
4		"		"	"	1			29.96	78	77	74		"	"	9	"
5		"		N. E.	N. N. E	1			29.94	77	76	74		"	cumu	9	"
6		"		"	"	1			29.94	76	76	73		"	cir-str	2	"
7		"		"	"	1			29.98	76	75	73		"	cir	1	"
8		"		"	"	1			30.02	76	76	73		"	cir cumu	5	"
9		"		"	North	1			30.04	77	77	74		"	"	3	"
10		"		"	"	2			30.04	79	78	74		"	"	4	"
11		"		"	N. by E.	2			30.04	80	79	76		"	"	3	"
Noon.		"		N. E. by N.	N. N. E.	2			30.03	81	80	76		"	"	2	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 420 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1830 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 128 " 1710 "

P. M.									
1	Swinging	N. W.	N. N. E.	4	30.01	81	80	b.c.	cir cumu 2
2	Ebb	S. W.	N. E.	4	29.98	81	80	"	" 1 "
3	"	W. by S.	"	3	29.95	81	80	"	" 1 "
4	"	West	"	3	29.94	81	80	"	" 1 "
5	"	W. S. W.	North	2	29.94	80	80	"	" 1 "
6	Swinging	North	E. N. E.	3	29.96	80	79	"	" 2 "
7	Flood	N. E.	North	3	29.99	80	79	"	" 4 "
8	"	"	"	3	30.01	79	78	"	" 2 "
9	"	"	"	3	30.02	82	79	b.cu.	" 2 "
10	"	N. E. by E.	"	2	30.02	82	79	"	" 2 "
11	"	"	"	2	30.02	82	79	"	" 6 "
Mid.	"	"	"	2	30.02	82	79	"	" 2 "

under the command of Commander T. F. Jewell, U. S. Navy,

Wednesday December 29th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Ends at A. M.

Clear overhead with a haze over the water. Light airs from North. Riding to flood tide. A light swell from S.W. & E. to which Ship rolls, gently.

H.C. Gearing.
Lieut U. S. N.

From 4 to 8 A. M.

Partly clear, hazy. Sounded circumnavigated Str. Light airs from N. N. E. Found swell. Made colors with a French Troopship leaving the harbor. Main deck awning on port side forward, caught fire from galley funnel burning holes in three cloths. Received in Pay Dept for issue to crew 6 lbs each of fresh beef & vegetables and 112 lbs fresh bread. Riding to flood. No appreciable current. Sent up Topgallant Masts and Crossed Topgallant Yards at 8 o'clock.

A.K. Townsstone
Ensign U. S. N.

From 8 A. M. to Meridian

Cloudy and mild. Light to gentle breeze from North & N. N. E. At 9h. mustered at quarters. At 10h. lowered Sailing Launch. Called away 1st & 2d Cutters Armed and Equipped and exercised them under sail. Engaged painting ship in places. Received in Pay. Dept 4 kegs (400 lbs) beans, 5 boxes (60 lbs) tea.

E. Galloway
Lieut U. S. N.

From Meridian to 4 P. M.

Cloudy and pleasant. Moderate to gentle breeze from N. N. E. & E. at 12h 35m began to swing to ebb, completing swing at 1 P. M. Rigged Sailing Launch and tried her under sail. Received in Pay Dept 300 lbs Beef 60 lbs Raisins and 100 lbs Rice. Scraped boat spars. Repairing Main Deck awning.

H.C. Gearing.
Lieut U. S. N.

From 4 to 8 P. M.

Clear and pleasant. Light to gentle breeze from North, at 5h Sent down Topgallant Yards and Masts. at 6h mustered at quarters. Ship rolling easily to swell from E.

E. Galloway
Lieut U. S. N.

From 8 P. M. to Midnight

Clear overhead. Haze around horizon. Light breeze from North. Flood tide. Ship rolling gently to an Easterly swell. Several steamers entered the harbor.

H.C. Gearing
Lieut U. S. N.

Examined and found to be correct.

A. V. Wadhams Lieut U.S.N. Navigator.

Log of the United States Steamer "Essex"
At Anchor off Singapore.

Hours	Tide	Ships Head	Wind	Force	Bar	Ther	Dry Bulb	Wet Bulb	Weather	Clouds	Clouds in 10ths	Sea
1	Flood	N.E.	North	3	30.02	78	77	74	b.c.u.	cir-cum	2	Smooth
2	"	"	"	3	30.00	77	76	73	"	"	0	"
3	"	"	"	3	29.97	77	76	73	"	"	0	"
4	"	N.E by N.	"	3	29.98	77	76	73	"	"	0	"
5	"	"	"	2	29.97	78	76	73	"	"	0	"
6	"	"	N by E	2	30.00	78	76	73	b.c	"	4	"
7	"	N.E.	"	2	30.02	79	76	73	"	"	3	"
8	"	N.E by E.	North	2	30.03	79	77	74	"	"	5	"
9	"	N.E.	N.N.W	2	30.05	79	78	74	"	"	5	"
10	"	"	N.E.	2	30.05	80	79	74	"	"	5	"
11	"	"	"	3	30.04	81	80	75	"	"	4	"
12	"	N.E by E.	N by E	2	30.02	81	81	75	"	"	3	"

Water Expended 330 Gals
Water on Hand at Noon 5760
Coal Expended this 24 Hrs
Coal On Hand 128-1310

Hours	Tide	Ships Head	Wind	Force	Bar	Ther	Dry Bulb	Wet Bulb	Weather	Clouds	Clouds in 10ths	Sea
1	Flood	N.E by N	N.N.E.	2	30.00	82	81	75	b.c	cir-cum	2	Smooth
2	Ebb	W.N.W.	"	3	29.98	82	81	75	"	"	2	"
3	"	W by S	"	3	29.96	82	81	76	"	"	2	"
4	"	"	"	3	29.96	82	81	76	"	"	3	"
5	"	West	"	3	29.97	81	80	75	"	"	5	"
6	"	"	"	3	29.99	80	79	74	"	"	5	"
7	Flood	N.E.	"	3	30.01	79	78	74	"	"	5	"
8	"	"	"	2	30.03	79	78	74	"	"	3	"
9	"	"	N.E by N.	2	30.05	77	77	74	"	"	6	"
10	"	N.E by E.	"	2	30.05	77	76	73	"	"	7	"
11	"	"	"	2	30.05	76	76	73	"	"	8	"
12	"	"	"	2	30.04	76	76	73	"	"	8	"

Under the Command of Commander P. F. Harris U.S.N.

Thursday December 20th 1866.

Commences and Until 4 A.M.

Raw cast misty weather. Gentle breeze from North. Observed a large fire in the city. Riding to flood.

B.B. Walling
Lieut U.S.N.

From 4 to 8 A.M.

Cloudy and warm. Gentle breze from North and N. by E. at 8 a sent up Top gallant Masts and crossed Top gallant Yards.

D.P. Galloway
Lieut U.S.N.

From 8 A.M. to Meridian

Cloudy and pleasant Light to gentle breze from N. by E and N.E. Riding to flood tide. At 8 P.M. Russian Gentle "Dijgit" fired a salute 21 guns, English Ensign at the Main and was answered by 21 guns from fort on shore. Received a visit of thanks for services offered from the "Dijgit" and the Commdr Commdg the "Essex" paid her an official visit. At 9.30 quarters for inspection. At 10.30, called all hands and exercised at Shifting Topsails for one hour & ten minutes. Placed A.E. Knox P.M. in double irons, by order of Commdr Commdg for five days, for sleeping on post.

N.C. Searing.
Lieut U.S.N.

From Meridian to 4 P.M.

Cloudy weather. Light to gentle breze from N.N.E. At 11.20 exercised at shifting foresail. Engaged painting inside woodwork and ironwork. At 1.30 stowing to ebb

B.B. Walling
Lieut U.S.N.

From 4 to 8 A.M.

Fair and pleasant Gentle to light breze from N.N.E. At 6.10 began swinging to flood, completing swing at 6.45. The Commander of the Russian Gunboat "Dijgit" made an official call. At 5.59, quarters for muster. At sunset sent down Top gallant masts and Yards. H.B.M. Ships "Satellite" and "Zephyr" returned to the Harbor

N.C. Searing
Lieut U.S.N.

From 8 P.M. to Midnight

Clear, pleasant weather. Light breezes from N.E. by N. Long swell from E. Moon set at 9.52. Riding to flood. A steamer came in and anchored.

B.B. Walling
Lieut U.S.N.

A.V. Wadhams.
Lieut and Navigator

Log of the United States Steamer "Essex"

at Anchor off Singapore.

Hour	Tide	Ships Head	Wind	Force	Bar	Ther	Dry Bulb	Wet Bulb	Weather	Clouds	Clouds in 10ths	Sea
1	Flood	N E	N E by N	2	30.02	76	75	73	b.c.	cir cumu	9	S
2	"	"	"	2	30.00	76	75	73	c.	cume	10	"
3	"	N E by N	North	2	30.01	75	75	73	"	"	10	"
4	"	"	"	2	29.99	75	75	73	b.c.	cir	9	"
5	"	"	N N E	2	30.00	75	74	72	"	cumu str	8	"
6	"	N E	"	2	30.01	75	74	72	"	cir cumu	1	"
7	"	"	"	2	30.03	75	75	73	"	"	1	"
8	"	N E by N	"	2	30.05	76	76	73	"	"	1	"
9	"	N E	"	2	30.04	78	76	73	"	"	4	"
10	"	"	"	2	30.06	80	78	74	"	"	6	"
11	"	"	N by E	2	30.05	81	81	76	"	"	7	"
12	"	N E by E	N E by N	2	30.02	82	82	76	"	"	7	"

Water used 420 Gals
Water on hand 10900 "
Coal used 1 46/74 Lbs
Coal on hand 127 2090 "

Hour	Tide	Ships Head	Wind	Force	Bar	Ther	Dry Bulb	Wet Bulb	Weather	Clouds	Clouds in 10ths	Sea
1	Flood	East	N E by N	2	30.00	81	82	77	b.c.	cir cumu str	7	S
2	"	E by E	E N E	2	29.95	81	82	78	"	"	5	"
3	"	S by E	"	2	29.94	81	82	76	"	"	3	"
4	Ebb	W by W	"	2	29.93	81	82	77	"	cumu nimb	2	"
5	"	W by S	N N E	2	29.92	82	81	76	"	"	2	"
6	"	S W	"	2	29.96	82	81	76	"	"	3	"
7	"	E by E	N E	2	29.98	80	81	75	"	cir cumu	7	"
8	Flood	N E	N E by N	2	30.01	80	80	75	"	"	9	"
9	"	"	N N E	2	30.03	79	79	75	"	"	9	"
10	"	N E by E	"	2	30.05	79	78	75	"	"	8	"
11	"	"	"	2	30.04	79	78	75	"	"	8	"
12	"	N E	"	2	30.03	78	78	75	"	"	8	"

Under the Command of Commander T. F. Jewell U. S. N.

Friday December 31st 1886

Commences Mid Watch H. A. M.
Clear and cool. Light breze from N. E. by N. to North. Flood tide.

C. F. Lechler
Ensign U. S. N.

From 4 to 8 A. M.
Cloudy and pleasant. Light breze from N. N. E. Ending the flood tide. At 6.00 H. B. M. S. "Satellite" left her anchorage and stood into Hong Harbour. At 8.00 sent up topgallant masts and crossed topgallant yards. Received in Pay department and issued for use of crew 146 lbs each of fresh beef and vegetables and 112 lbs fresh bread.

N. C. Searing.
Lieut U. S. N.

From 8 A. M. to Meridian
Clear pleasant weather. Light breze from N. by E. and N. E. by N. At 9.30 mustered at quarters. At 9.40 sounded Battalion call and exercised. Company and Howitzer crew drilled at marching and arms. By order of Commdg Officer released Henry Hudson, B. M. from confinement. By order of Commdg Officer Henry Hudson, B. Mate, was this day detached from Battalion Mate to Steamer.

B. F. Waring
Lieut U. S. N.

From Meridian to 4 P. M.
First part clear then cloudy. Light breze from E. N. E. and N. E. by E. Flood tide first part. Sounded at 2.30. H. M. S. "Satellite" came in and anchored. Sent an officer to make usual visit. At 2.00 started fires in two boilers for distilling.

C. F. Lechler
Ensign U. S. N.

From 4 to 8 P. M.
Cloudy pleasant weather. Light breze from E. N. E. to N. E. by N. Two steamers, came into port and one left harbor. Distilling.

B. F. Waring
Lieut U. S. N.

From 8 P. M. to Midnight
Clear and pleasant. Light breze from N. N. E. Flood tide. Distilling.

C. F. Lechler
Ensign U. S. N.

Approved
Theo. F. Jewell
Commander
Comdg.

S. T. Wadhams Lieut and Navigator